

Solenoid Cartridge Valves

On-off pilot operated

Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8I-06-NC	Size 08	OD15X18YS0	RE 18323-01	669
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-06-NC	Size 08	OD15XYZS	RE 18323-02	673
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-06-NC 019-E	Special	OD15X19Z	RE 18323-20	677
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-06-NC-ET	Size 08	OD15X183CZ	RE 18323-09	681
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-10-NC	Size 10	OD15X36YZ	RE 18323-11	685
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-09-NC	Special	OD15X17YZ	RE 18323-03	689
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-12A-NC	Size 12	OD15X89YZ	RE 18323-13	693
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-12-NC	Special	OD15X21YZ	RE 18323-04	697
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-16A-NC	Size 16	OD15X75YS0	RE 18323-17	701
Solenoid cartridge valves, pilot operated poppet 2 way normally closed	VEI-8A-2B-16-NC-NSS	Special	OD150304YS0	RE 18323-15	705

Solenoid Cartridge Valves

On-off pilot operated

Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8I-06-NA	Size 08	OD15X18YS0	RE 18323-05	709
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-06-NA	Size 08	OD15XYZS0	RE 18323-06	713
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-06-NA	Special	OD15X19Z	RE 18323-21	717
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-10-NA	Size 10	OD15X36YS0	RE 18323-12	721
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-09-NA	Special	OD15X17YS0	RE 18323-07	725
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-12A-NA	Size 12	OD15X89YS0	RE 18323-14	729
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-12-NA	Special	OD15X21YS0	RE 18323-08	733
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-16A-NA	Size 16	OD15X75YS0	RE 18323-18	737
Solenoid cartridge valves, pilot operated poppet 2 way normally open	VEI-8A-2B-16-NA-NSS	Special	OD150404YS0	RE 18323-16	741
Solenoid operated valves, pilot operated poppet 2 way normally open proximity sensor	VEI-8A-2A-06-NA-S-M-NSS	Size 08	OD1506181DS2Z	RE 18325-07	745

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Solenoid Cartridge Valves

On-off pilot operated

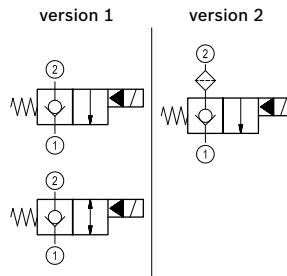
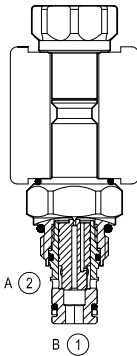
Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid operated valves, pilot operated poppet 2 way normally open proximity sensor	VEI-8A-2A-09-NA-S-M-NSS	Size 10	OD1506761DS2Z	RE 18325-08	749
Solenoid operated valves, pilot operated poppet 2 way normally open proximity sensor	VEI-8A-2A-09-NA-S-M-NSS	Special	OD1506171DS0Z	RE 18325-09	753
Solenoid operated valves, pilot operated poppet 2 way normally open proximity sensor	VEI-8A-2A-12-NA-S-M-NSS	Special	OD1506211DS2Z	RE 18325-10	757
Solenoid operated valves, pilot operated poppet 2 way normally open proximity sensor	VEI-8A-2T-06-NA-S-M-NSS	Size 08	OD1532181DS2Z	RE 18325-16	761
Solenoid operated valves, pilot operated poppet 2 way normally open double lock proximity sensor	VEI-8A-2T-09-NA-S-M-NSS	Special	OD1532171DS2Z	RE 18325-15	765
Solenoid operated valves, pilot operated poppet 2 way normally closed proximity sensor	VESP-08A-12A/00-2A05-N7	Size 08	OD15051841YZ	RE 18325-03	769
Solenoid operated valves, pilot operated poppet 2 way normally closed proximity sensor - extra spring	VESP-12G-16A/00-2A05-N7	Special	OD1505176504Z	RE 18325-04	773
Solenoid operated valves, pilot operated poppet 2 way normally closed proximity sensor	VESP-16G-16A/00-2A-N7	Special	OD15052165YZ	RE 18325-05	777

Solenoid operated valves pilot operated poppet type 2-way normally closed

Common cavity, Size 08

VEI-8I-06-NC

OD.15 - X - 18 - Y - S0



General

Weight	kg (lbs)	0.11 (0.24)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	0.5-30 (0.1-8)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-75
Seal kit version 1-2	code material no.	RG08A201052100 R901101437
Seal kit coil	code material no.	RG1211PNBR7010 R934003957
Other technical data		See data sheet RE 18350-50

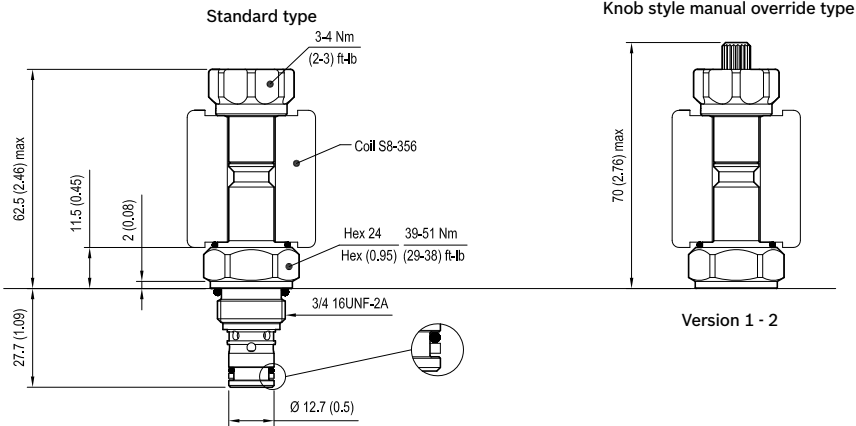
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

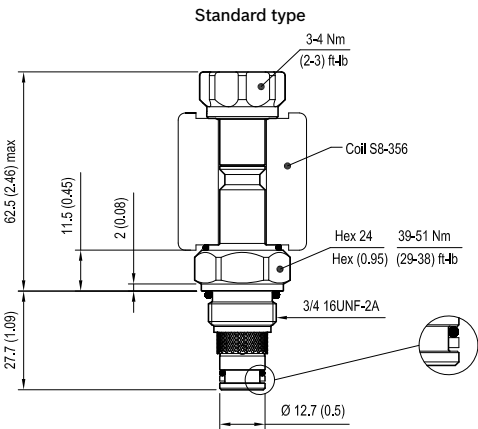
Note: Coils must be ordered separately.

Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed



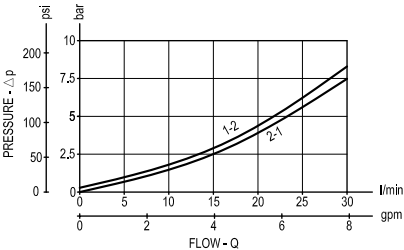
Version 2 : Solenoid operated valve, poppet 2-way normally closed - filter



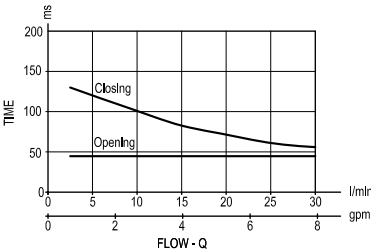
[mm (Inches)]

Performance graphs

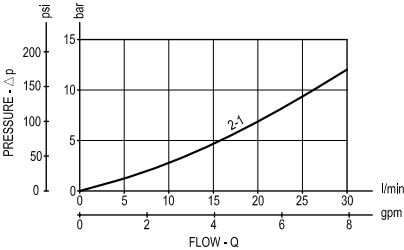
Version 1



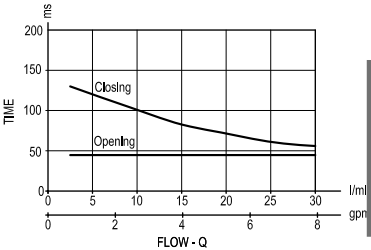
Standard



Version 2



Standard



Ordering code

OD.15

*

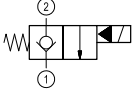
18

*

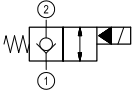
S0

Solenoid operated valves
poppet type 2-way
normally closed

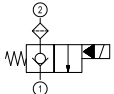
monodirectional type

 = 01

bidirectional type

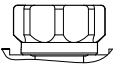
 = 05

monodirectional type with filter

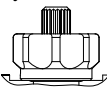
 = 07

Tube not welded

standard type

3I = 

knob style manual override

3M = 

Common cavity: CA-08A-2N

Type	Material number
OD1501183IS000	R901090962
OD1501183MS000	R901090966
OD1505183IS000	R901090953
OD1505183MS000	R901090950
OD1507183IS000	R901091142
OD1507183MS000	R934003486

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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Tel. +39 059 887 611
Fax +39 059 547 848
cartridges@oilcontrol.com
www.boschrexroth.com

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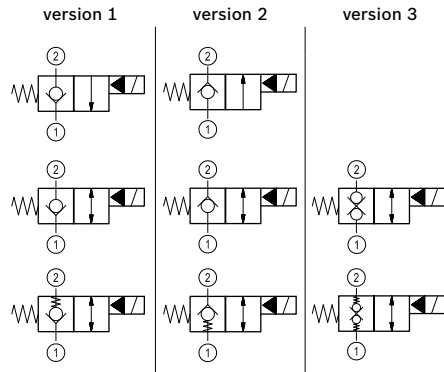
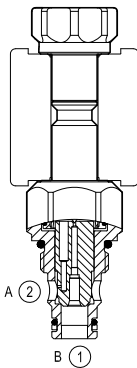
Subject to change.

Solenoid operated valves pilot operated poppet type 2-way normally closed

Common cavity, Size 08

VEI-8A-06-NC

OD.15 - X - Y - Z - S



General

Weight	kg (lbs)	0.16 (0.35)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	0.5-40 (0.1-11)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit version 1	code material no.	RG08A2010520100 R901101437
Seal kit version 2-3	code material no.	RG08A2010530100 R901101544
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE 18350-50

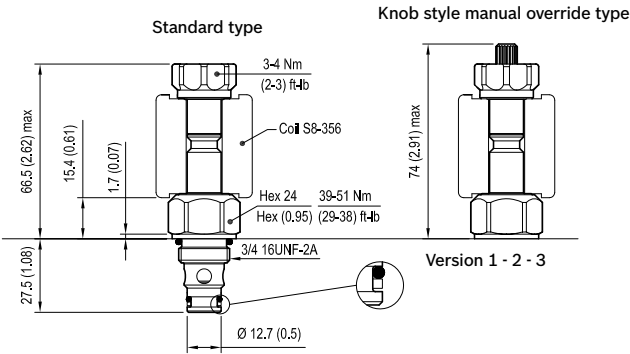
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

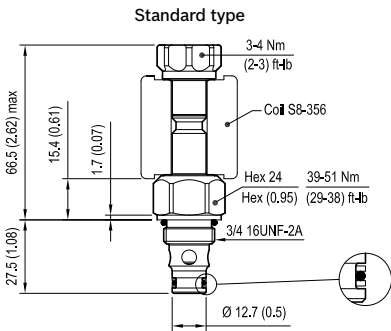
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed



Version 2: Solenoid operated valve, poppet 2-way normally closed

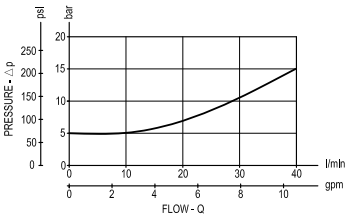
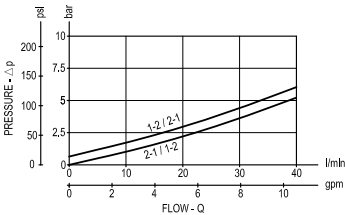
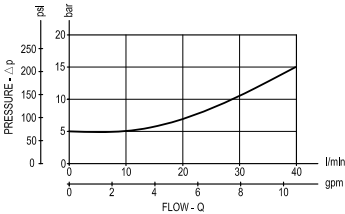
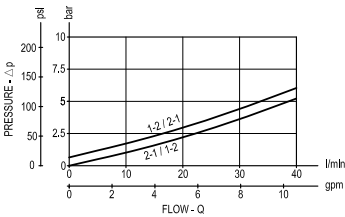
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



mm (Inches)

Performance graphs

Version 1 - Version 2



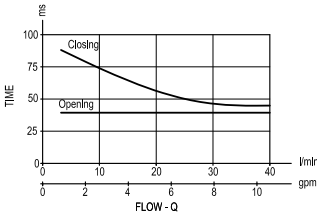
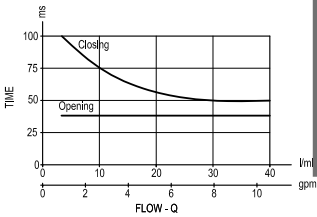
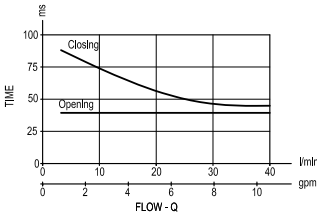
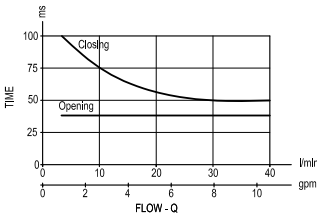
Standard

Extra spring

Version 3

Standard

Extra spring



Ordering code

OD.15

X

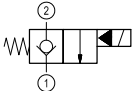
Y

Z

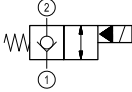
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Solenoid operated valves
poppet type 2-way
normally closed

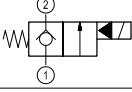
monodirectional type

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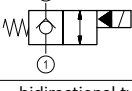
bidirectional type

 = 05

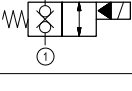
monodirectional type

 = 09

bidirectional type

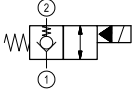
 = 03

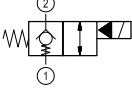
bidirectional type

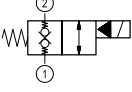
 = 31

S0 = Tube not welded

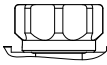
S8 = Tube not welded with extra spring

 for X= 05


 for X= 03

 for X= 31

standard type

3A = 

knob style manual override

3D = 

18 = Common cavity: CA-08A-2N

Type	Material number
OD1501183AS000	R901091096
OD1501183DS000	R901091101
OD1503183AS000	R934000779
OD1503183AS800	R934003063
OD1503183DS000	R901091112
OD1503183DS800	R934003064
OD1505183AS000	R901083058
OD1505183AS800	R934003080
OD1505183DS000	R901087979

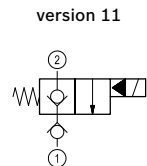
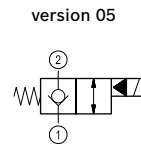
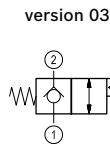
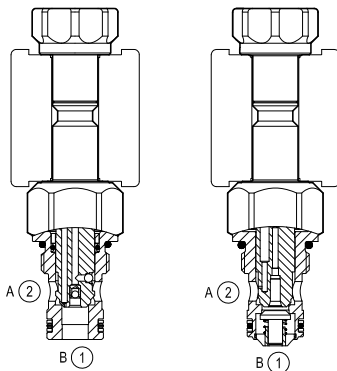
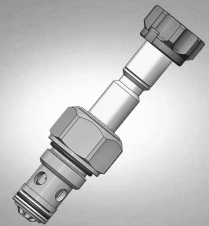
Type	Material number
OD1509183AS000	R901091150
OD1509183DS000	R901091151
OD1531183AS000	R901082015
OD1531183AS800	R934000104
OD1531183DS000	R901091164

Solenoid operated valves pilot operated poppet type 2-way normally closed

Special cavity, 019-E

VEI-8A-06-NC

OD.15 - X - 19 - Z



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	0.5-40 (0.1-11)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Special cavity 019-E see RE 18325-75

Seal kit version 03-11 code RG19E201053010 material no. R934003561

Seal kit version 05 code RG19E201052010 material no. R934003560

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

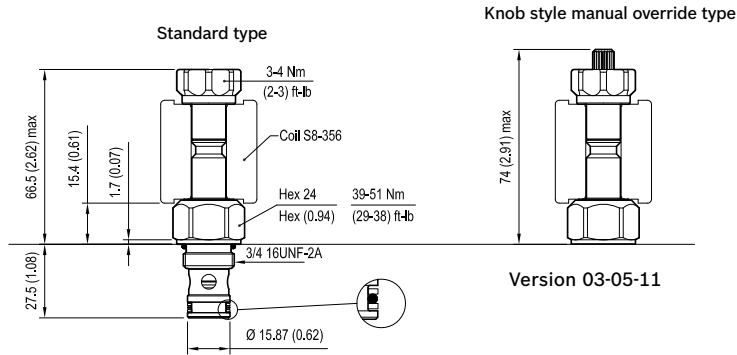
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

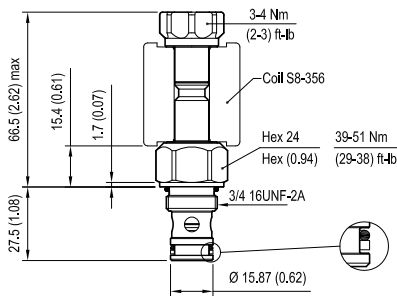
Note: Coils must be ordered separately.

Dimensions

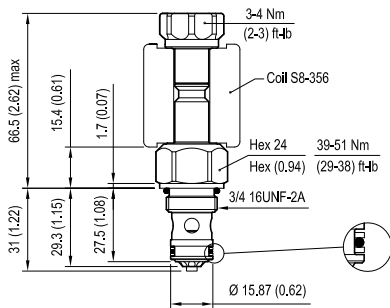
Version 03: Solenoid operated valve, poppet 2-way normally closed



Version 05: Solenoid operated valve, poppet 2-way normally closed



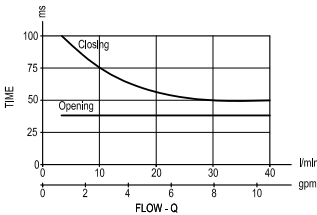
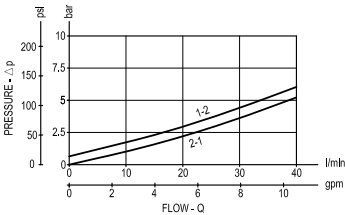
Version 11: Solenoid operated valve, poppet 2-way normally closed



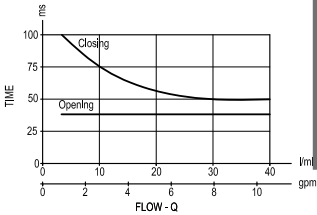
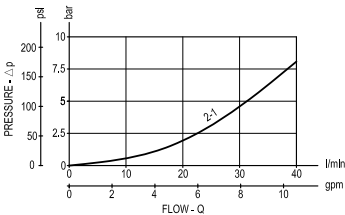
mm (Inches)

Performance graphs

Version 03-05



Version 11



Ordering code

OD.15

X

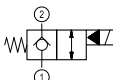
19

Z

*

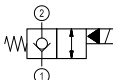
Solenoid operated valves
poppet type 2-way
normally closed

bidirectional type



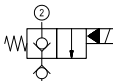
03 =

bidirectional type



05 =


monodirectional type



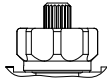
11 =

S0 = Tube not welded

standard type

3A = 

knob style manual override

3D = 

Special cavity: 019-E

Type	Material number
OD1503193AS00	R934000785
OD1503193DS00	R934000786
OD1505193AS00	R934000895
OD1505193DS00	R934000898
OD1511193AS000	R901091157
OD1511193DS000	R901091158

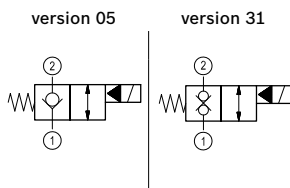
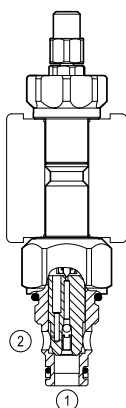
Type	Material number

Solenoid operated valves pilot operated poppet 2-way normally closed

Common cavity, Size 08

VEI-8A-06-NC-ET

OD.15 - X - 18.3C - Z



4

General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Rated flow	l/min. (gpm)	40 (11)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-70

Seal kit - version 05 code material no. RG08A2010520100 R901101437

Seal kit - version 31 code material no. RG08A2010530100 R901101544

Seal kit coil code material no. RG12A1PNBR7010 R934003958

Other technical data See data sheet RE 18350-50

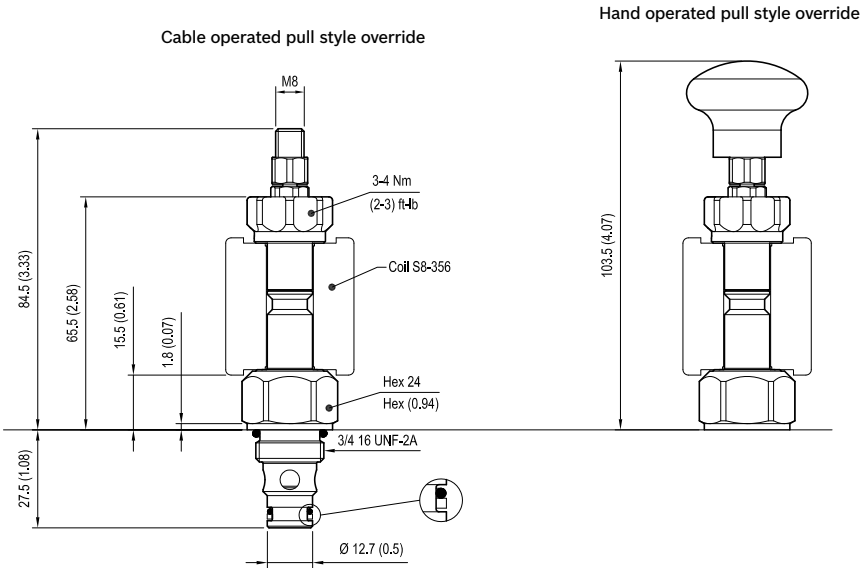
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

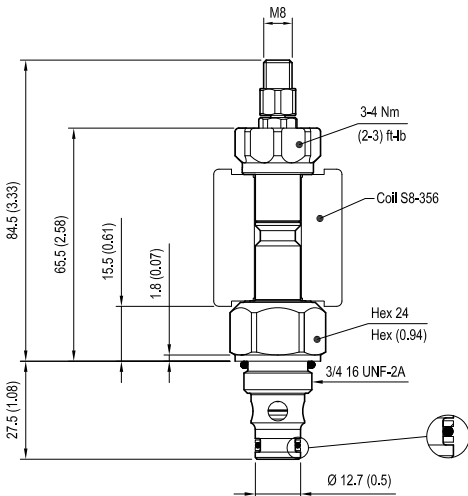
Note: Coils must be ordered separately.

Dimensions

Version 05: Solenoid operated valves poppet 2-way normally closed



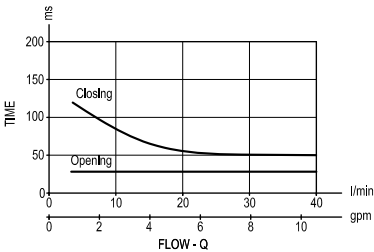
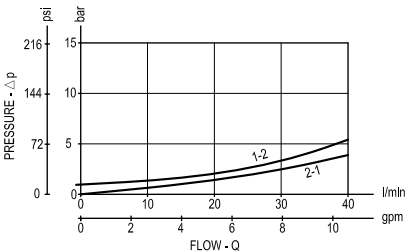
Version 31: Solenoid operated valves poppet 2-way double lock normally closed



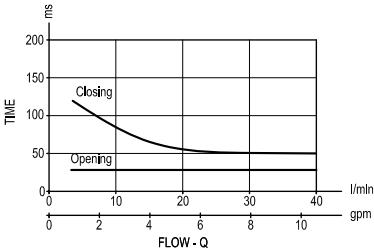
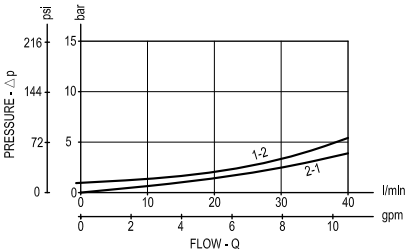
[mm (Inches)]

Performance graph

Version 05



Version 31



Ordering code

OD.15

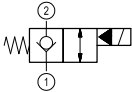
*

18

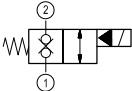
3C

*

Solenoid operated valves
poppet 2-way normally
closed




= 05




= 31

Cable operated pull style override

S0 = 

Hand operated pull style override

S1 = 

Common cavity: CA-08A-2N

Type	Material number
OD1505183CS000	R901094735
OD1505183CS100	R901094737
OD1531183CS000	R901109982
OD1531183CS100	R901109983

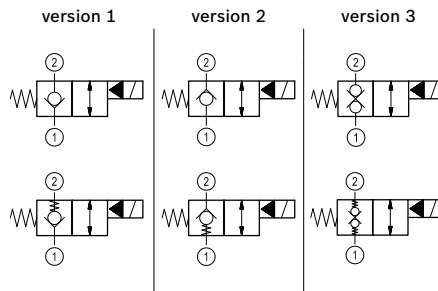
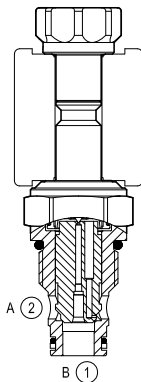
Type	Material number

Solenoid operated valves pilot operated poppet type 2-way normally closed

Common cavity, Size 10

VEI-8A-10-NC

OD.15 - X - 36 - Y - Z



General

Weight	kg (lbs)	0.16 (0.35)
Installation orientation	Optional	
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	2-70 (0.5-18)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)	
Installation torque	Nm (ft-lbs)	44-56 (33-42)

Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
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Cavity	CA-10A-2N see RE 18325-75	
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Seal kit version 1	code	RG10A2010520100
	material no.	R901111363

Seal kit version 2-3	code	RG10A2010530100
	material no.	R901111366

Seal kit coil	code	RG12A1PNBR7010
	material no.	R934003958

Other technical data	See data sheet RE 18350-50	
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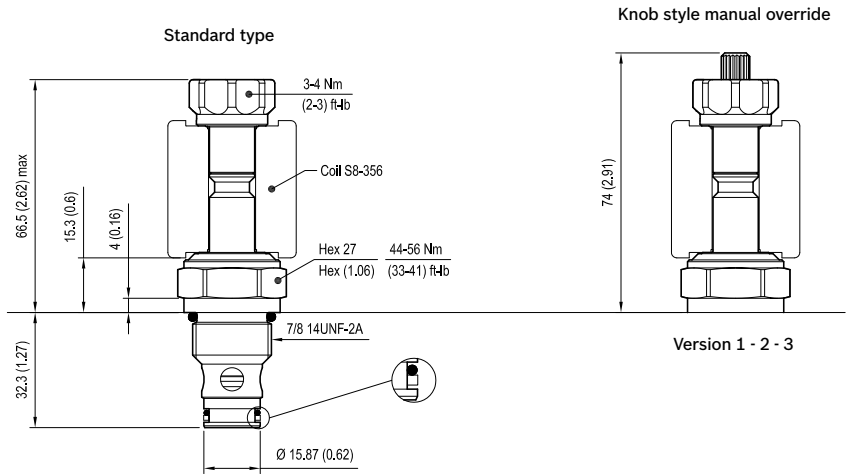
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see Re 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

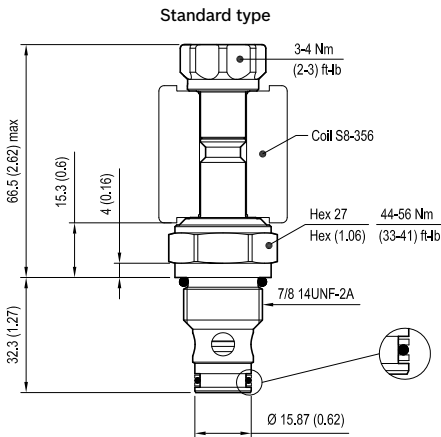
Note: Coils must be ordered separately.

Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed



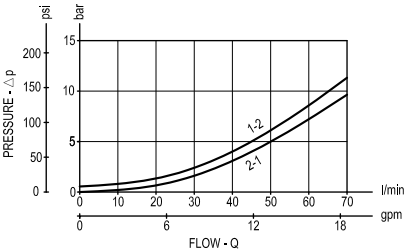
Version 2: Solenoid operated valve, poppet 2-way normally closed
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



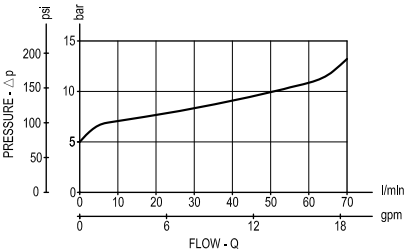
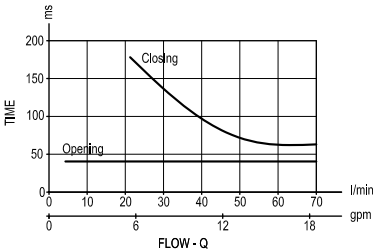
[mm (Inches)]

Performance graphs

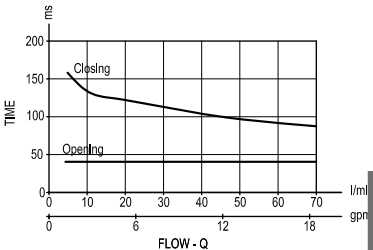
Version 1 - Version 2



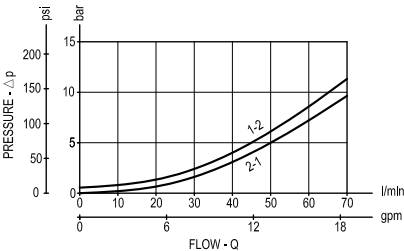
Standard



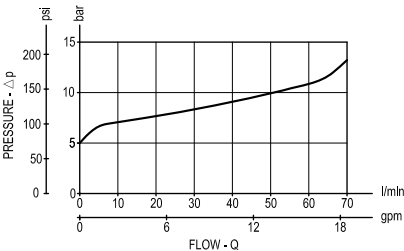
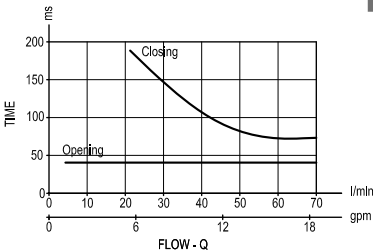
Extra spring



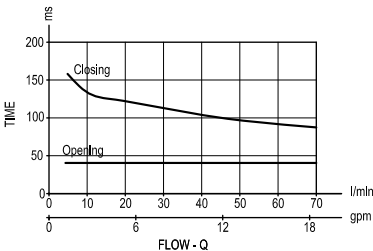
Version 3



Standard



Extra spring



Ordering code

OD.15

X

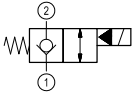
36

*

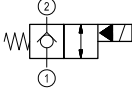
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Solenoid operated valves
poppet type 2-way
normally closed

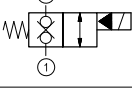
bidirectional type

 = 05

bidirectional type

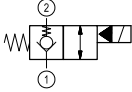
 = 03

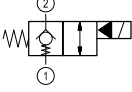
double lock

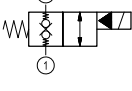
 = 31

S0 = Tube not welded


S8 = Tube not welded with extra spring

 for X= 05

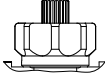
 for X= 03

 for X= 31

standard type

3A = 

knob style manual override

3D = 

Common cavity: CA-10A-2N

Type	Material number
OD1503363AS000	R901091113
OD1503363AS800	R901091114
OD1503363DS800	R901109956
OD1505363AS000	R901090947
OD1505363AS800	R901090945
OD1505363DS000	R901080482
OD1505363DS800	R901109969
OD1531363AS000	R901091166
OD1531363AS800	R901109984

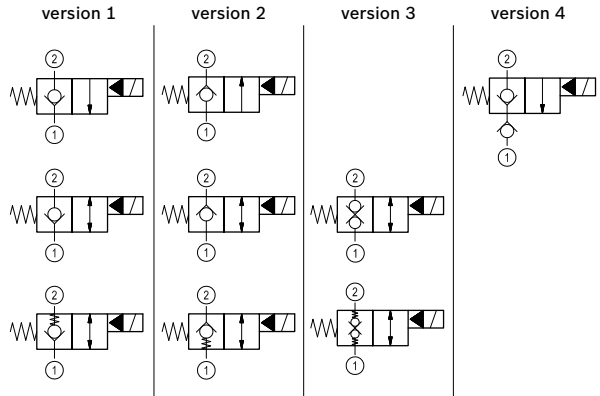
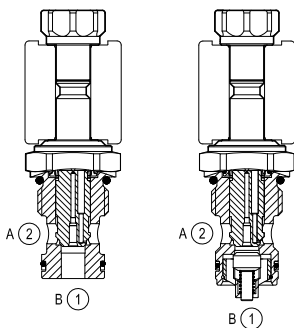
Type	Material number
OD1531363DS000	R901091167
OD1531363DS800	R901109985

Solenoid operated valves pilot operated poppet type 2-way normally closed

Special cavity, 017-E

VEI-8A-09-NC

OD15 - X - 17 - Y - Z



General

Weight	kg (lbs)	0.24 (0.53)
Installation orientation	Optional	
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	2-70 (0.5-18)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 54-66 (40-49)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity 017-E see RE 18325-75

Seal kit - version 1 code RG17E201052010 material no. R934003562

Seal kit - version 2-3-4 code RG17E201053010 material no. R934003563

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

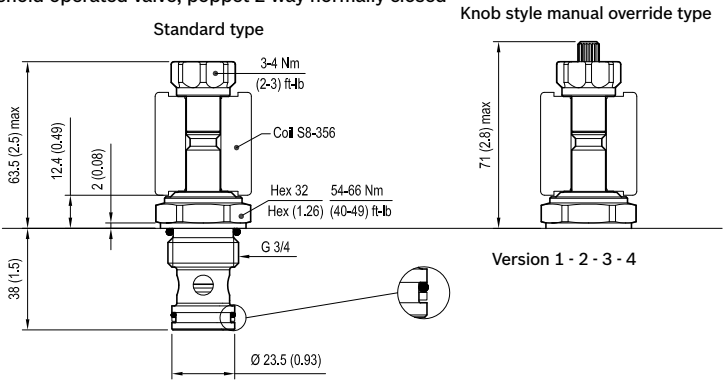
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

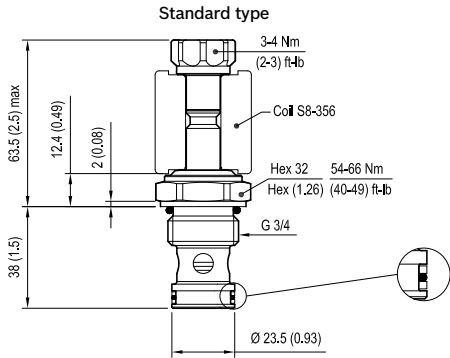
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed

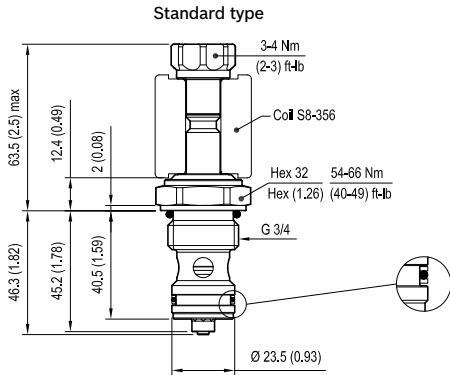


Version 2: Solenoid operated valve, poppet 2-way normally closed

Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



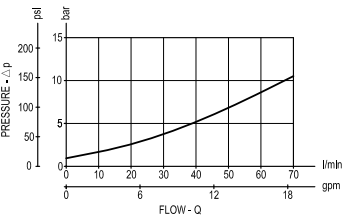
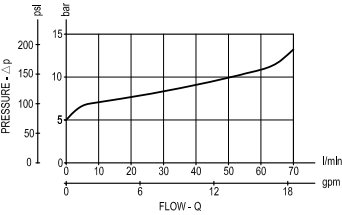
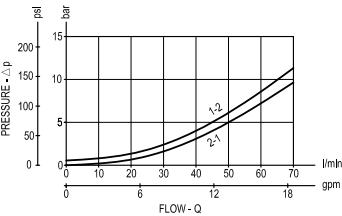
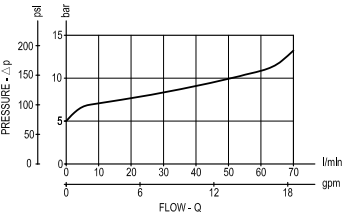
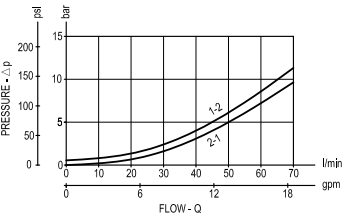
Version 4: Solenoid operated valve, poppet 2-way normally closed



mm (Inches)

Performance graphs

Version 1 - Version 2



Standard

Extra spring

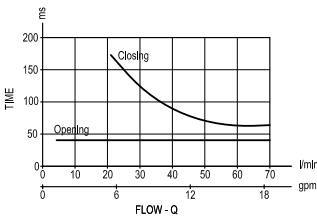
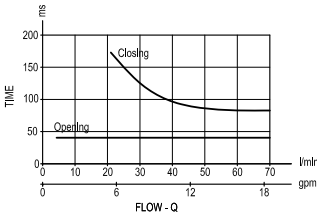
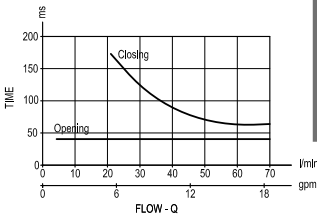
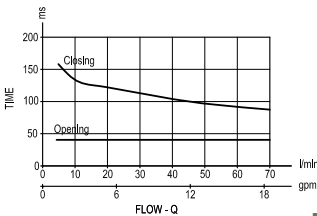
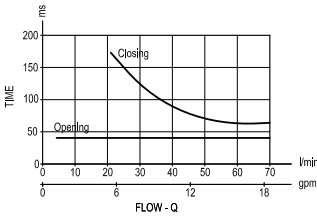
Version 3

Standard

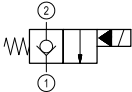
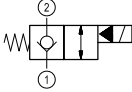
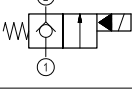
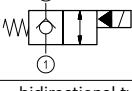
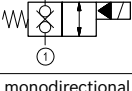
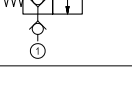
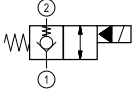
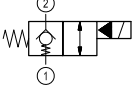
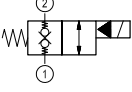
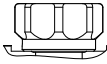
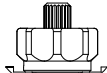
extra spring

Version 4

Standard



Ordering code

OD.15 * 17 * *				
Solenoid operated valves poppet type 2-way normally closed				
monodirectional type				
 = 01				
bidirectional type				
 = 05				
monodirectional type				
 = 09				
bidirectional type				
 = 03				
bidirectional type				
 = 31				
monodirectional type				
 = 11				
S0 = Tube not welded				
S8 = Tube not welded with extra spring				
 for X= 05				
 for X= 03				
 for X= 31				
standard type				
3A = 				
knob style manual override				
3D = 				
Special cavity: 017-E				

Type	Material number
OD1501173AS000	R901176045
OD1501173DS000	R934000679
OD1503173AS000	R901113664
OD1503173AS800	R934000773
OD1503173DS000	R901180257
OD1503173DS800	R934003061
OD1505173AS000	R901113673
OD1505173AS800	R901119220
OD1505173DS000	R901125249

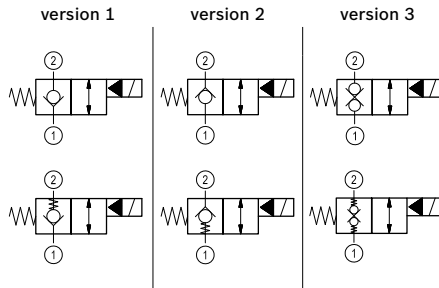
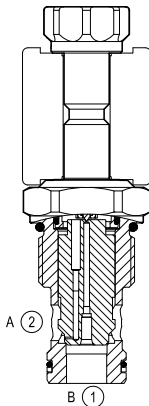
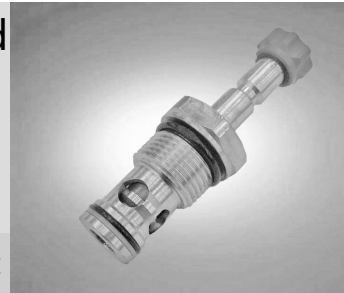
Type	Material number
OD1505173DS800	R934000846
OD1509173AS000	R934001038
OD1509173DS000	R934001039
OD1511173AS000	R934001072
OD1511173DS000	R934001075
OD1531173AS000	R901113682
OD1531173AS800	R934001116
OD1531173DS000	R934001120
OD1531173DS800	R934003111

Solenoid operated valves pilot operated poppet type 2-way normally closed

Common cavity, Size 12

VEI-8A-12A-NC

OD.15 X - 89 - Y - Z



4

General

Weight	kg (lbs)	0.22 (0.48)
Installation orientation	Optional	
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min. (gpm)	5-150 (1-40)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)	
Installation torque	Nm (ft-lbs)	54-66 (40-49)

Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
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Cavity	CA-12A-2N see RE 18325-75	
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Seal kit - version 1	code	RG12A2010520100
	material no.	R901111377

Seal kit - version 2-3	code	RG12A2010530100
	material no.	R930003374

Seal kit coil	code	RG12A1PNBR7010
	material no.	R934003958

Other technical data	See data sheet RE 18350-50	
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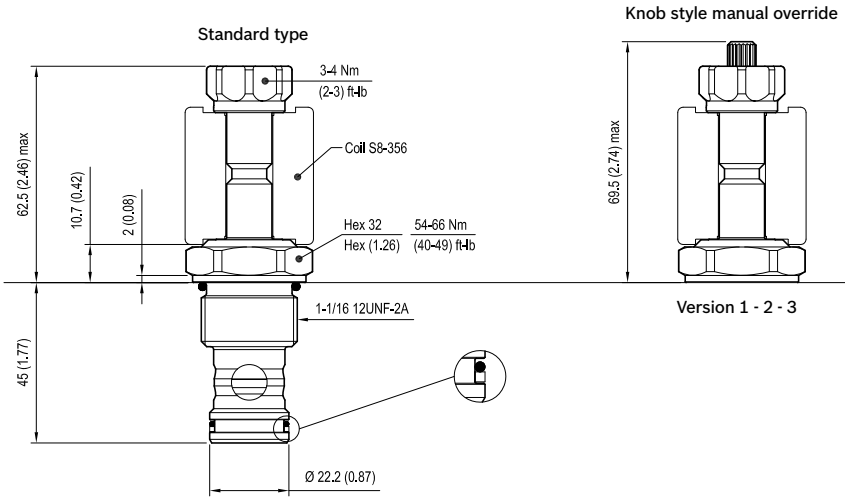
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

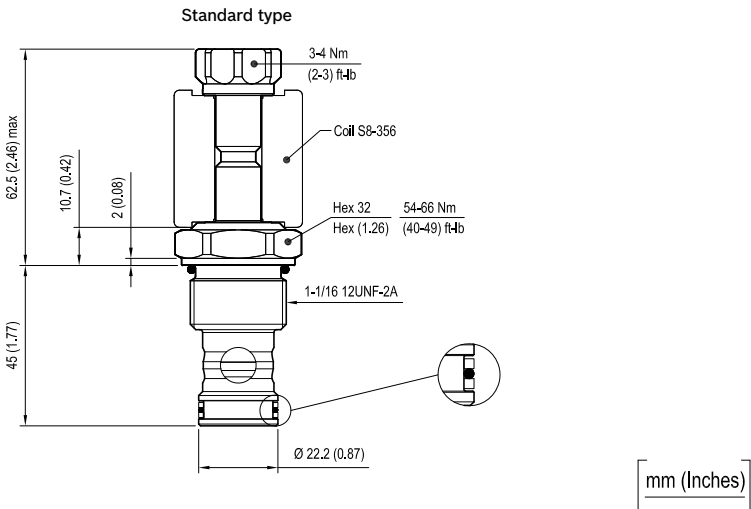
Note: Coils must be ordered separately.

Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed

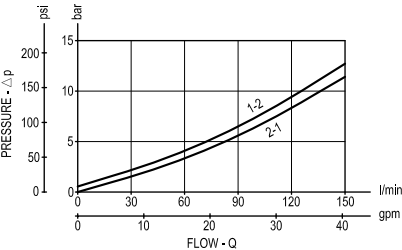


Version 2: Solenoid operated valve, poppet 2-way normally closed
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed

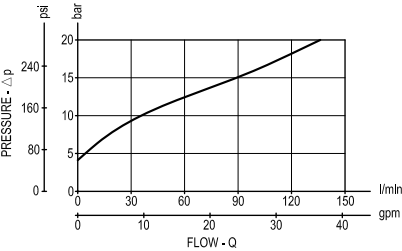
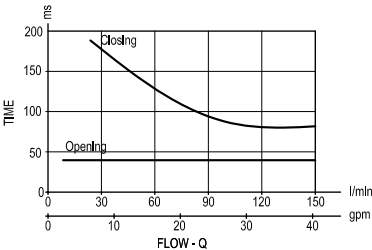


Performance graphs

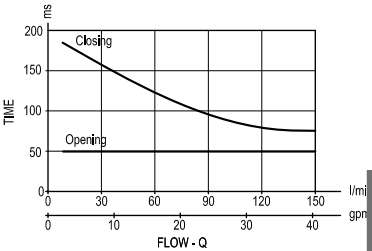
Version 1 - Version 2



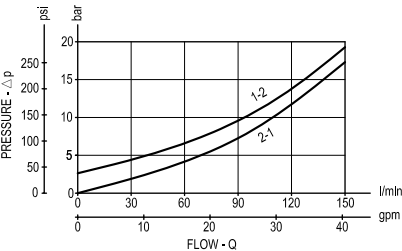
Standard



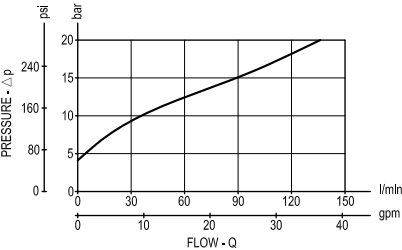
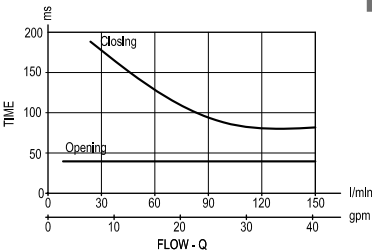
Extra spring



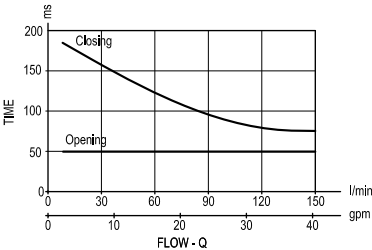
Version 3



Standard



Extra spring



Ordering code

OD.15

*


89

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*

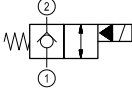
Solenoid operated valves
poppet type 2-way
normally closed

bidirectional type



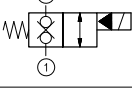
= 05

bidirectional type



= 03

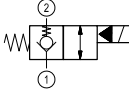
double lock



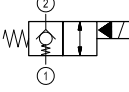
= 31

S0 = Tube not welded

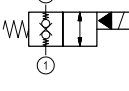
S8 = Tube not welded with extra spring



for X= 05




for X= 03



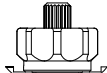
for X=31

standard type



3A =

knob style manual override



3D =

Common cavity: CA-12A-2N

Type	Material number
OD1503893AS000	R901091116
OD1503893AS800	R901109961
OD1503893DS000	R901091117
OD1503893DS800	R901109962
OD1505893AS000	R901091127
OD1505893AS800	R901091128
OD1505893DS000	R901091129
OD1505893DS800	R901109978
OD1531893AS000	R901091168

Type	Material number
OD1531893AS800	R901091169
OD1531893DS000	R901091170
OD1531893DS800	R901109990

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cartridges@oilcontrol.com
www.boschrexroth.com

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Subject to change.

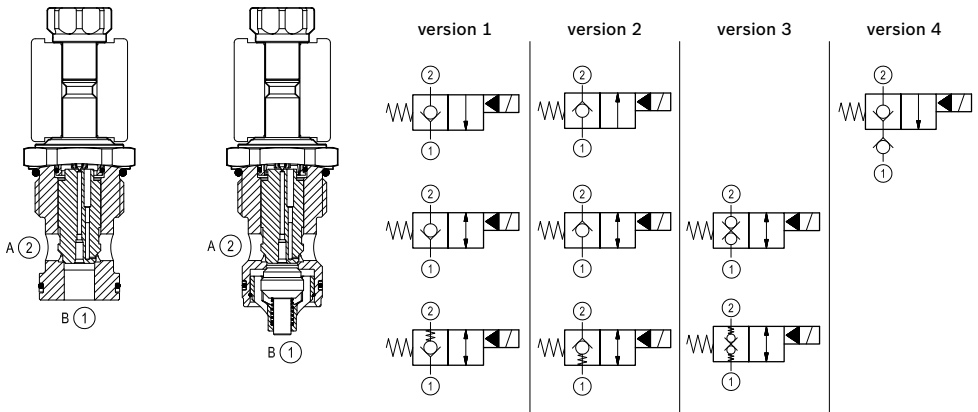
696

Solenoid operated valves pilot operated poppet type 2-way normally closed

Special cavity, 021-E

VEI-8A-12-NC

OD.15 - X - 21 - Y - Z



General

Weight	kg (lbs)	0.34 (0.75)
Installation orientation	Optional	
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	5-150 (1-40)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)	
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Installation torque	Nm (ft-lbs)	80-100 (59-74)
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Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
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Cavity	021-E see RE 18325-75	
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Seal kit - version 1	code	RG21E201052010
	material no.	R934003566

Seal kit - version 2-3	code	RG21E201053010
	material no.	R934003567

Seal kit coil	code	RG12A1PNBR7010
	material no.	R934003958

Other technical data	See data sheet RE 18350-50	
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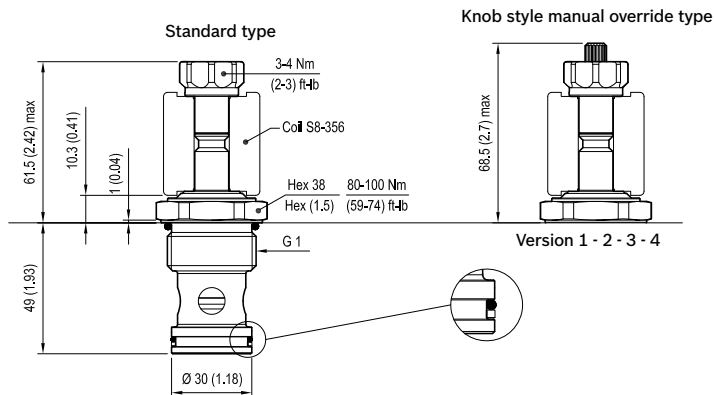
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

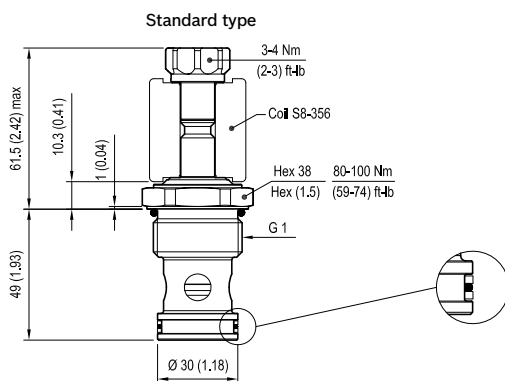
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed

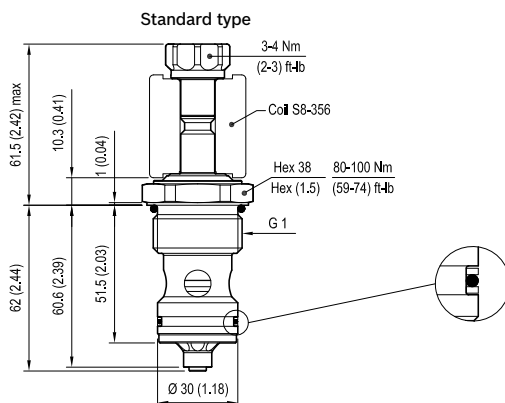


Version 2: Solenoid operated valve, poppet 2-way normally closed

Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



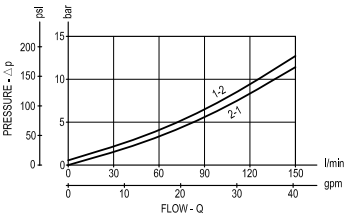
Version 4: Solenoid operated valve, poppet 2-way normally closed



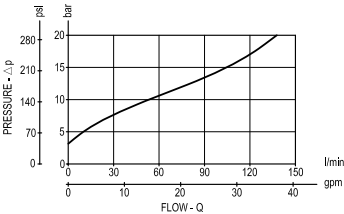
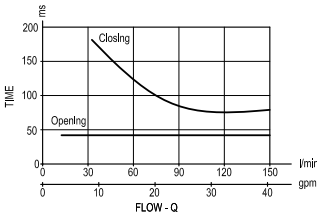
mm (Inches)

Performance graphs

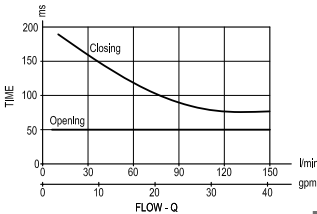
Version 1 - Version 2



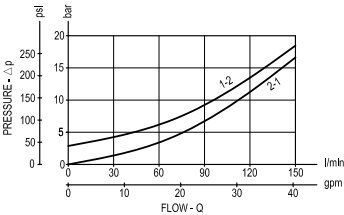
Standard



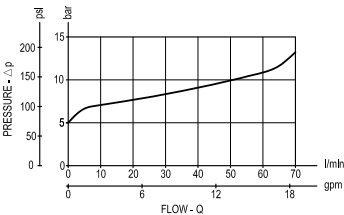
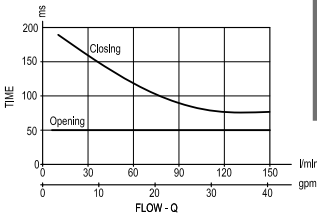
Extra spring



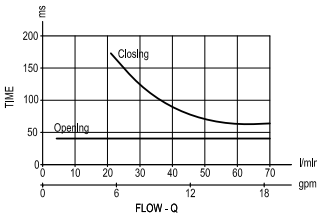
Version 3



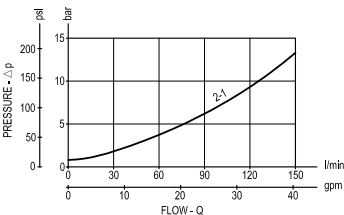
Standard



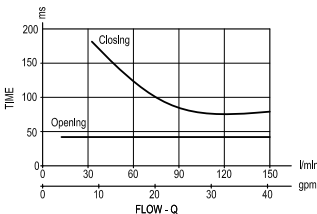
Extra spring



Version 4



Standard



Ordering code

OD.15

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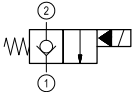
21

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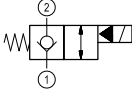
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Solenoid operated valves
poppet type 2-way
normally closed

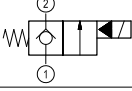
monodirectional type

 = 01

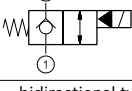
bidirectional type

 = 05

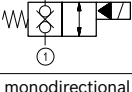
monodirectional type

 = 09

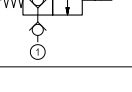
bidirectional type

 = 03

bidirectional type

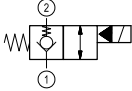
 = 31

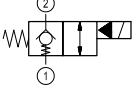
monodirectional type

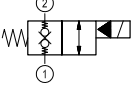
 = 11

S0 = Tube not welded

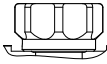
S8 = Tube not welded with extra spring

 for X= 05

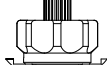
 for X= 03

 for X= 31

standard type

3A = 

knob style manual override

3D = 

Special cavity: 021-E

Type	Material number
OD1501213AS000	R901144300
OD1501213AS800	R934000707
OD1501213DS000	R901085462
OD1503213AS000	R901113666
OD1503213AS800	R934003065
OD1503213DS000	R934000792
OD1503213DS800	R934003066
OD1505213AS000	R901104395
OD1505213AS800	R901119221

Type	Material number
OD1505213DS000	R901119267
OD1509213AS000	R901132881
OD1511213AS000	R901138183
OD1511213AS800	R934001086
OD1531213AS000	R901104412
OD1531213AS800	R901119002
OD1531213DS000	R901132876
OD1531213DS800	R901125793

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cartridges@oilcontrol.com
www.boschrexroth.com

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Subject to change.

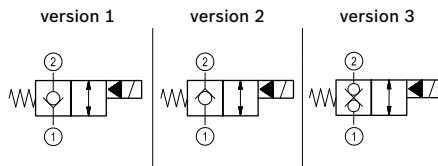
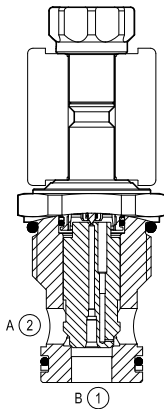
Solenoid operated valves pilot operated poppet type 2-way normally closed

Common cavity, Size 16



VEI-8A-16A-NC

OD.15 - X - 75 - Y - S0



General

Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	5-150 (1-40)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)	
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Installation torque	Nm (ft-lbs)	80-100 (59-74)
---------------------	-------------	----------------

Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
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Cavity	CA-16A-2N see RE 18325-75	
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Seal kit - version 1	code	RG16A2010520100
	material no.	R901111386

Seal kit - version 2-3	code	RG16A2010530100
	material no.	R930003262

Seal kit coil	code	RG12A1PNBR7010
	material no.	R934003958

Other technical data	See data sheet RE 18350-50	
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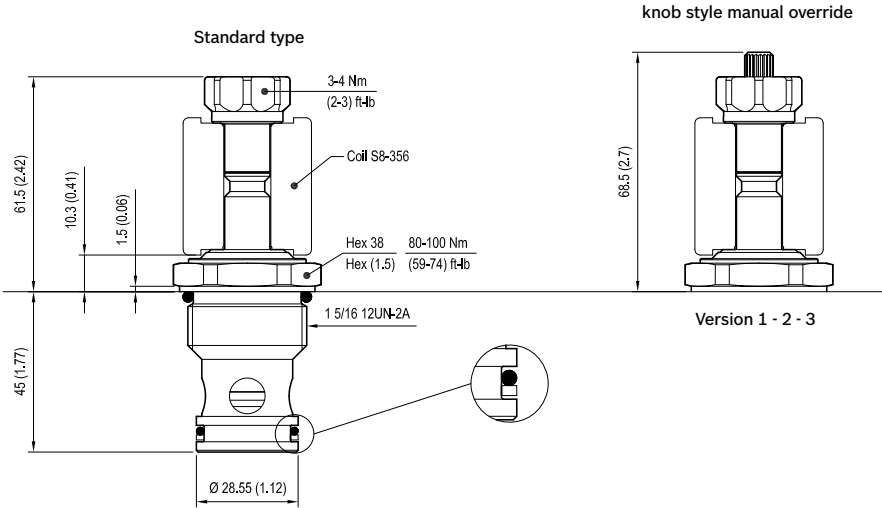
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

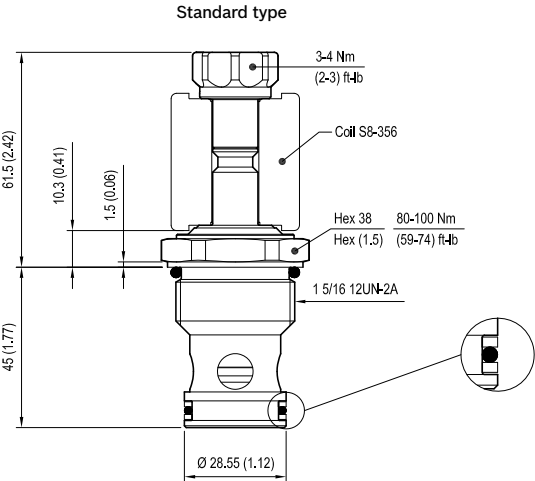
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally closed



Version 2: Solenoid operated valve, poppet 2-way normally closed

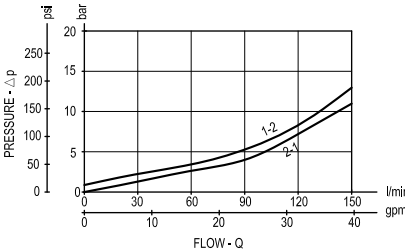
Version 3: Solenoid operated valve, poppet 2-way double lock normally closed



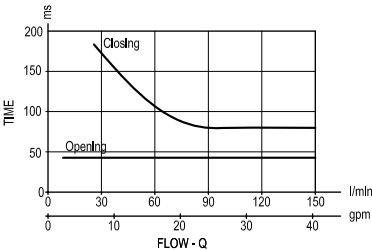
[mm (Inches)]

Performance graphs

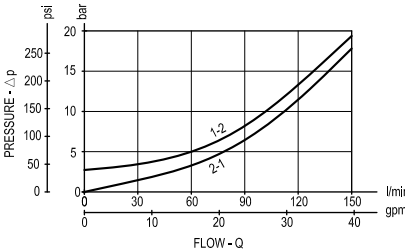
Version 1 - Version 2



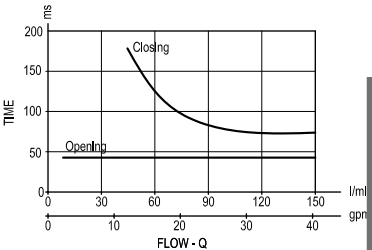
Standard



Version 3



Standard



Ordering code

OD.15

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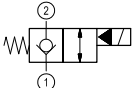
75

*

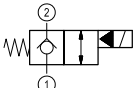
S0

Solenoid operated valves
poppet type 2-way
normally closed

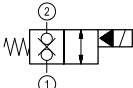
monodirectional type

 = 05

bidirectional type

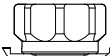
 = 03

double lock

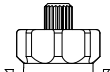
 = 31

Tube not welded

standard type

3A = 

knob style manual override

3D = 

Common cavity: CA-16A-2N

Type	Material number
OD1503753AS000	R901094726
OD1505753AS000	R901094745
OD1505753DS000	R901094746
OD1531753AS000	R901094747
OD1531753DS000	R901094748

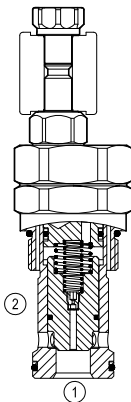
Type	Material number

Solenoid operated valves pilot operated poppet type 2-way normally closed

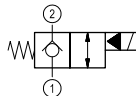
Special cavity, 004

VEI-8A-2B-16-NC-NSS

OD.15.03.04 - Y - S0



version 03



4

General

Weight	kg (lbs)	1.13 (2.5)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Rated flow	l/min. (gpm)	260 (69)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids

		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
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Installation torque	Nm (ft-lbs)	110-130 (81-96)
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Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
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Special cavity		004 see RE 18325-75
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Seal kit	code	RG0004020520100
	material no.	R930001696

Seal kit coil	code	RG12A1PNBR7010
	material no.	R934003958

Other technical data		See data sheet RE 18350-50
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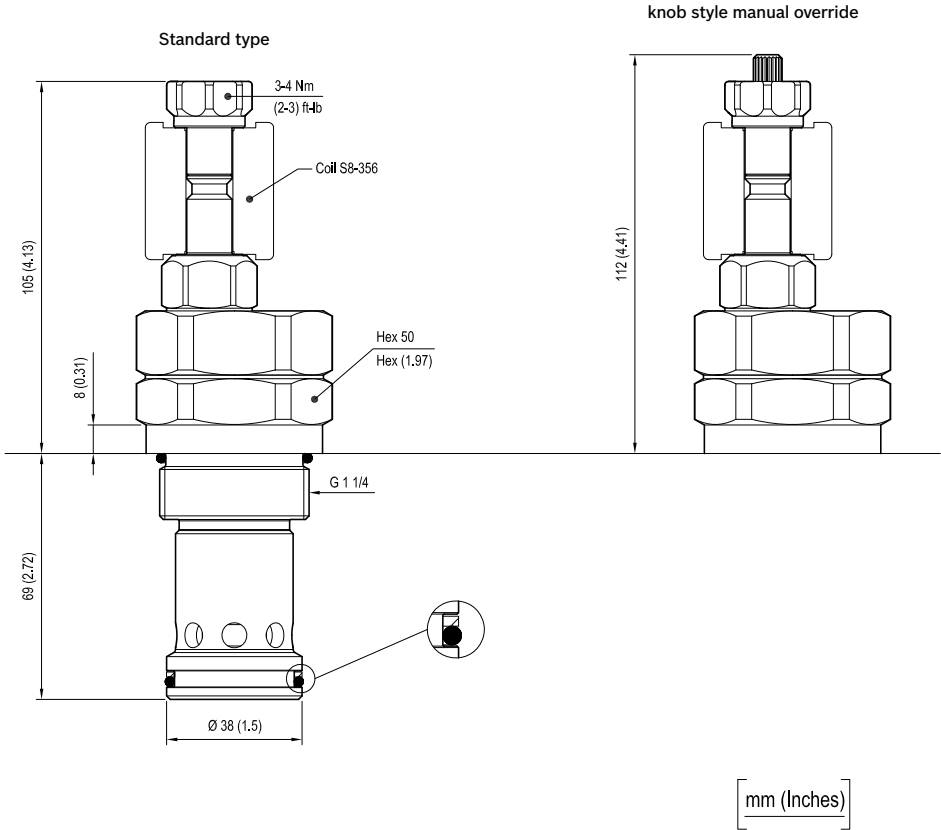
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

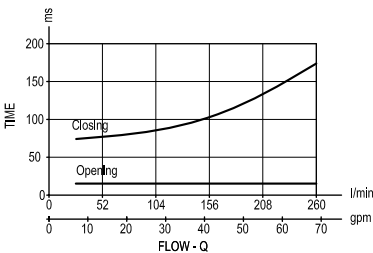
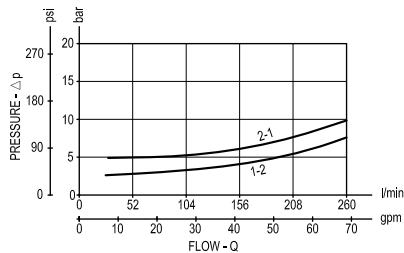
Dimensions

Solenoid operated valve, poppet 2-way normally closed - Special cavity



Performance graphs

Version 03



Ordering code

OD.15

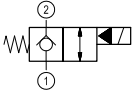
03

04

*


S0

Solenoid operated valves
poppet type 2-way
normally closed

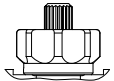


Tube not welded

standard type

3A = 

knob style manual override

3D = 

Special cavity: 004

Type	Material number
OD1503043AS000	R934000764
OD1503043DS000	R901091110

Type	Material number

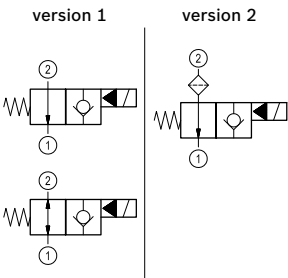
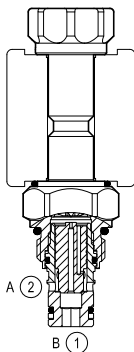
1/4
RE 18323-05/02.11
Replaces: RE 18323-05/08.10

Solenoid operated valves pilot operated poppet type 2-way normally open

Common cavity, Size 08

VEI-8I-06-NA

OD-15 - X - 18 - Y - S0



General

Weight	kg (lbs)	0.11 (0.24)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	0.5-30 (0.1-8)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-75
Seal kit	code material no.	RG08A2010520100 R901101437
Seal kit coil	code material no.	RG1211PNBR7010 R934003957
Other technical data		See data sheet RE 18350-50

Electrical

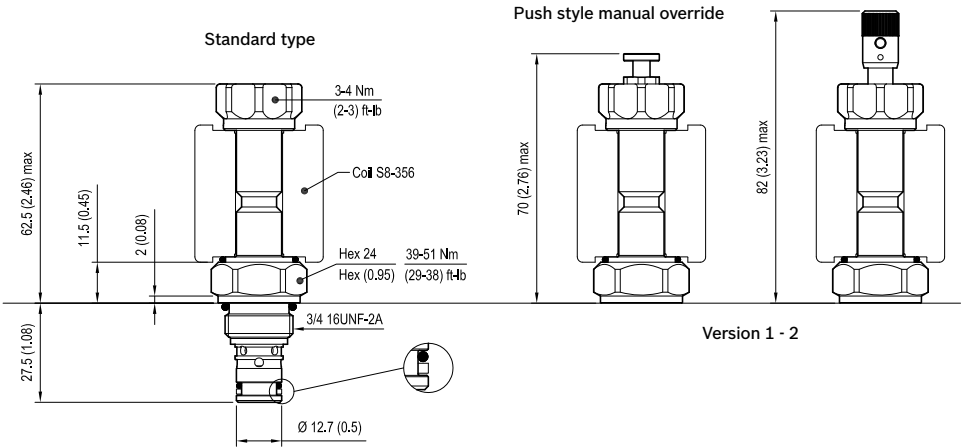
Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

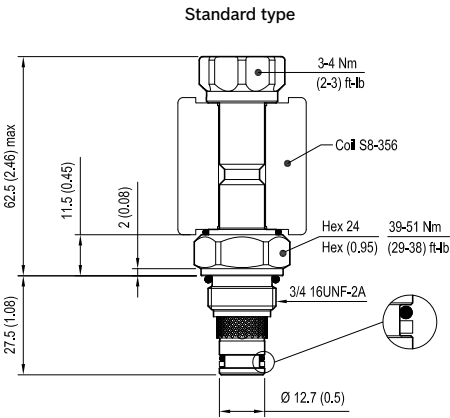
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open

Push and twist style manual override



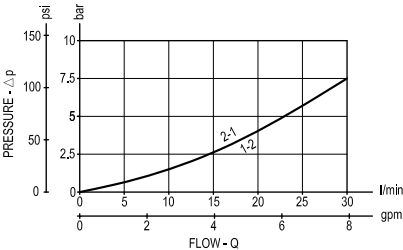
Version 2 : Solenoid operated valve, poppet 2-way normally open - filter



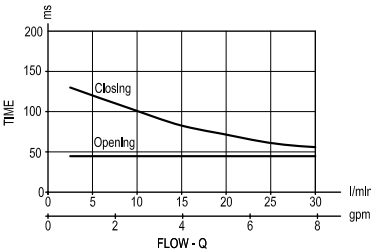
mm (Inches)

Performance graphs

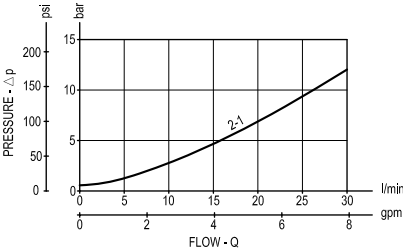
Version 1



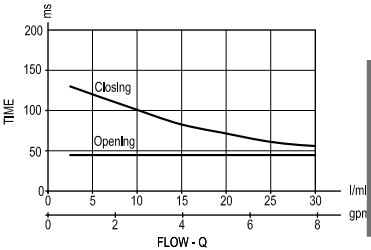
Standard



Version 2



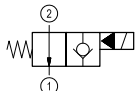
Standard



OD.15	*	18	*	S0
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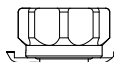
Tube not welded

standard type

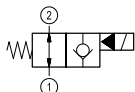


= 02

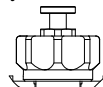
11 =



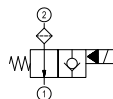
Push style manual override



= 06

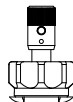
 $1L =$ 

Push and twist style manual override



= 08

1M =



Common cavity: CA-08A-2N

Type	Material number
OD1502181S000	R901091107
OD1502181LS000	R901091108
OD1502181MS000	R901094588
OD1506181S000	R901091133
OD1506181LS000	R901091134
OD1506181MS000	R901091135
OD1508181S000	R901091146
OD1508181LS000	R901091148
OD1508181MS000	R901091149

[illegible]

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The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

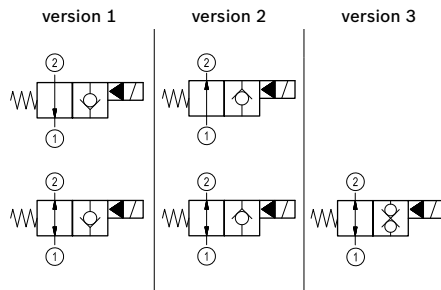
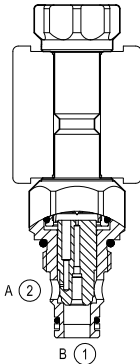
Subject to change.

Solenoid operated valves pilot operated poppet type 2-way normally open

Common cavity, Size 08

VEI-8A-06-NA

OD.15 - X - Y - Z - S0



General

Weight	kg (lbs)	0.12 (0.26)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	1.5-40 (0.4-11)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-70

Seal kit version 1 code RG08A2010520100 material no. R901101437

Seal kit version 2-3 code RG08A2010530100 material no. R901101544

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

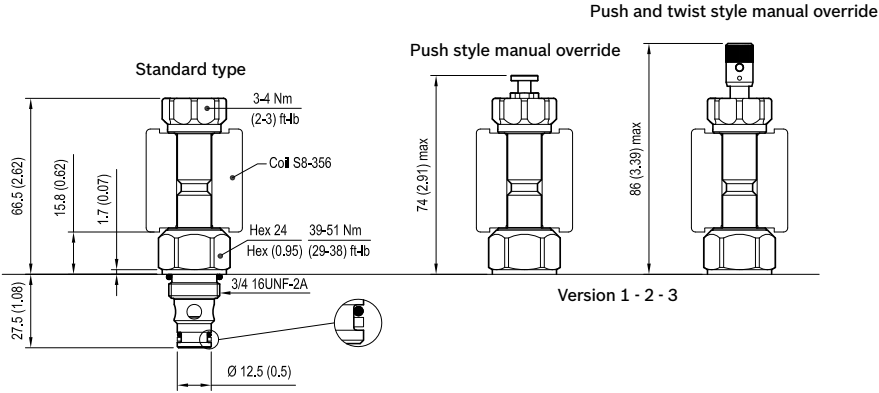
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

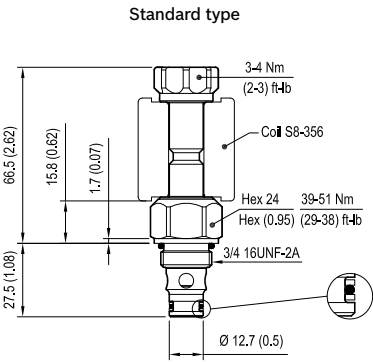
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open



Version 2: Solenoid operated valve, poppet 2-way normally open

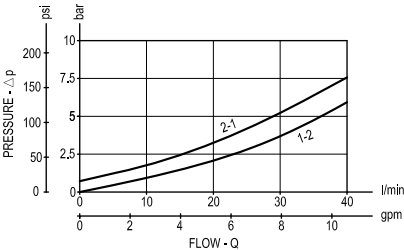
Version 3: Solenoid operated valve, poppet 2-way double lock normally open



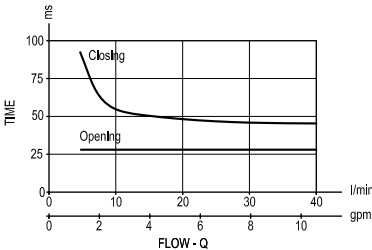
mm (Inches)

Performance graphs

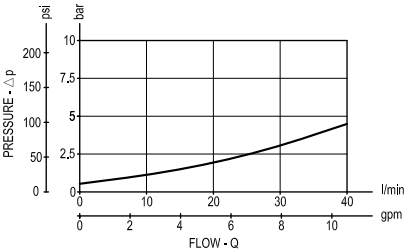
Version 1 - Version 2



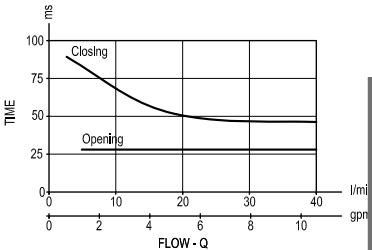
Standard



Version 3



Standard



Ordering code

OD.15

X

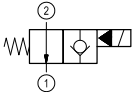
Y

Z

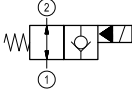
S0

Solenoid operated valves
poppet type 2-way
normally open

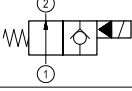
monodirectional type

 = 02

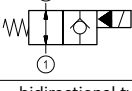
bidirectional type

 = 06

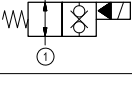
monodirectional type

 = 10

bidirectional type


 = 04

bidirectional type


 = 32

Tube not welded


standard type

1A = 

Push style manual override

1B = 

Push and twist style manual override

1C = 

18 = Common cavity: CA-08A-2N

Type	Material number
OD1502181AS000	R901091102
OD1502181BS000	R901091105
OD1502181CS000	R901091106
OD1506181AS000	R901091130
OD1506181BS000	R901091131
OD1506181CS000	R901091132
OD1504181AS000	R901091121
OD1504181BS000	R901091122
OD1504181CS000	R901091123

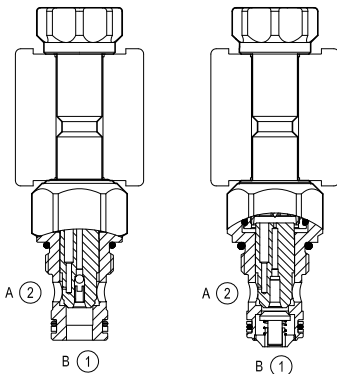
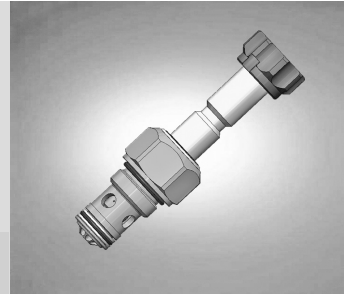
Type	Material number
OD1510181AS000	R901091152
OD1510181BS000	R901091154
OD1510181CS000	R901091155
OD1532181AS000	R901091171
OD1532181BS000	R901091173
OD1532181CS000	R901091174

Solenoid operated valves pilot operated poppet type 2-way normally open

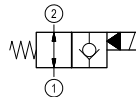
Special cavity, 019-E

VEI-8A-06-NA

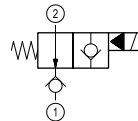
OD.15 - X - 19 - Z



version 06



version 12



4

General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	1.5-40 (0.4-11)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Special cavity 019-E see RE 18325-75

Seal kit version 06 code RG19E201052010 material no. R934003560

Seal kit version 12 code RG19E201053010 material no. R934003561

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

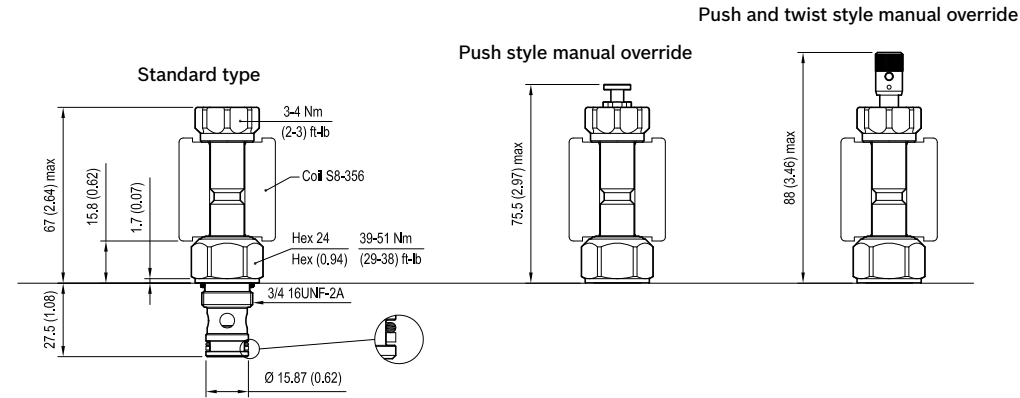
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

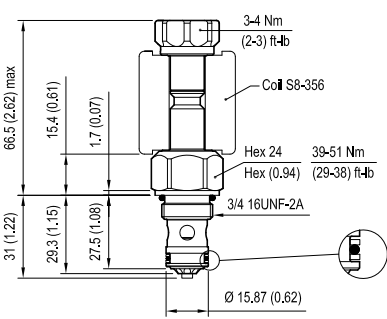
Note: Coils must be ordered separately.

Dimensions

Version 06: Solenoid operated valve, poppet 2-way normally open



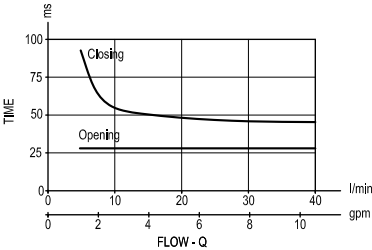
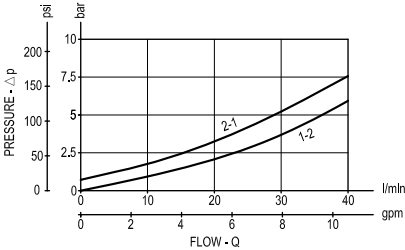
Version 12: Solenoid operated valve, poppet 2-way normally open



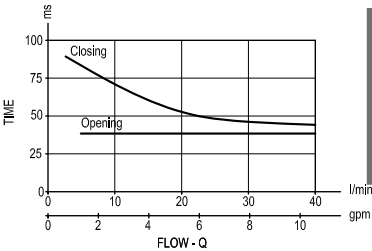
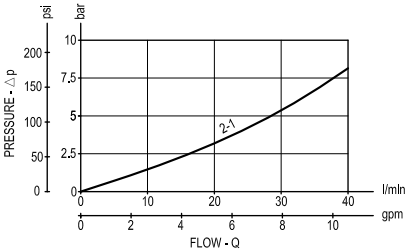
mm (Inches)

Performance graphs

Version 06



Version 12



Ordering code

OD.15

X

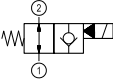
19

Z

S0

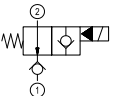
Solenoid operated valves
poppet type 2-way
normally open

bidirectional type



06 =

monodirectional type




12 =


Special cavity: 019-E

Tube not welded


standard type

1A = 

Push style manual override

1B = 

Push and twist style manual override

1C = 

Type	Material number
OD1506191AS000	R934000989
OD1506191BS000	R934000990
OD1506191CS000	R934000991
OD1512191AS000	R901091159
OD1512191BS000	R901091161
OD1512191CS000	R901091162

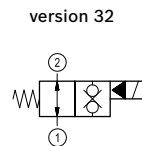
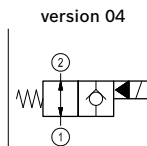
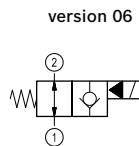
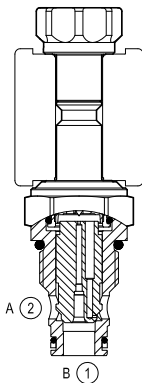
Type	Material number

Solenoid operated valves pilot operated poppet type 2-way normally open

Common cavity, Size 10

VEI-8A-10-NA

OD.15 - X - 36 - Y - S0



4

General

Weight	kg (lbs)	0.16 (0.35)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	2-70 (0.5-18)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 44-56 (33-42)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-10A-2N see RE 18325-75

Seal kit - version 1 code RG10A2010520100 material no. R901111363

Seal kit - version 2-3 code RG10A2010530100 material no. R901111366

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

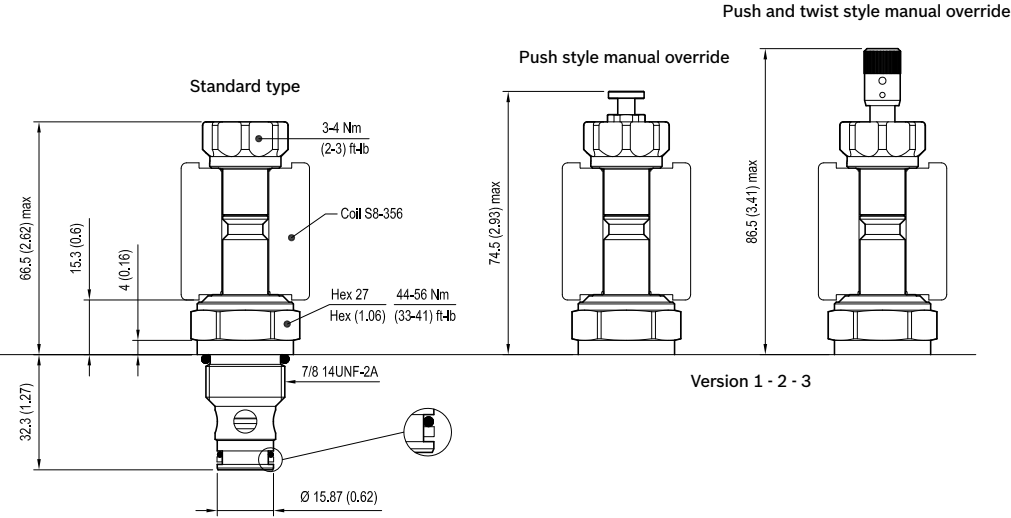
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

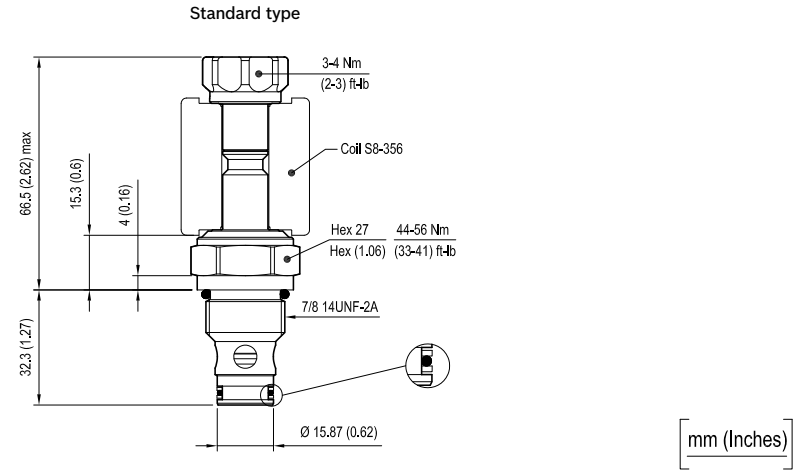
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open



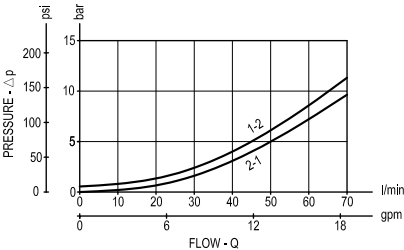
Version 2: Solenoid operated valve, poppet 2-way normally open

Version 3: Solenoid operated valve, poppet 2-way double lock normally open

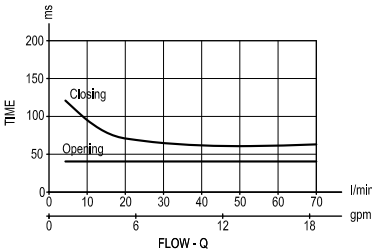


Performance graphs

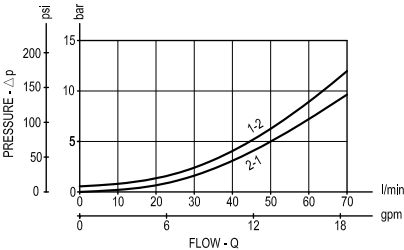
Version 06 - Version 04



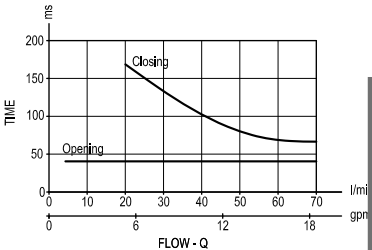
Standard



Version 32



Standard



Ordering code

OD.15

*

36

*

S0

Solenoid operated valves
poppet type 2-way
normally open

Tube not welded

bidirectional type

= 06

bidirectional type

= 04

bidirectional type

= 32

Common cavity: CA-10A-2N

standard type

1A =

Push style manual override

1B =

Push and twist style manual override

1C =

Type	Material number
OD1504361AS000	R901091124
OD1504361BS000	R901091125
OD1504361CS000	R901091126
OD1506361AS000	R901080489
OD1506361BS000	R901091136
OD1506361CS000	R901091137
OD1532361AS000	R901091175
OD1532361BS000	R901091176
OD1532361CS000	R901091178

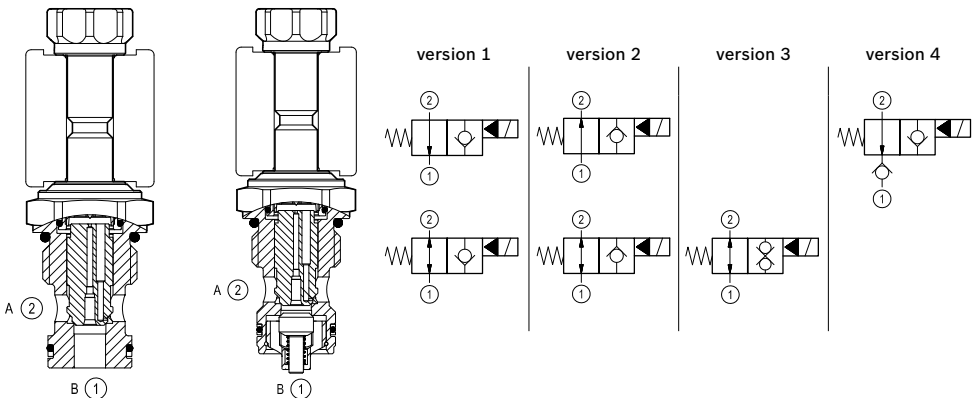
Type	Material number

Solenoid operated valves pilot operated poppet type 2-way normally open

Special cavity, 017-E

VEI-8A-09-NA

OD.15 - X - 17 - Y - S0



General

Weight	kg (lbs)	0.21 (0.46)
Installation orientation	Optional	
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	2-70 (0.5-18)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 54-66 (40-49)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity 017-E see RE 18325-75

Seal kit - version 1 code RG17E201052010 material no. R934003562

Seal kit - version 2-3-4 code RG17E201053010 material no. R934003563

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

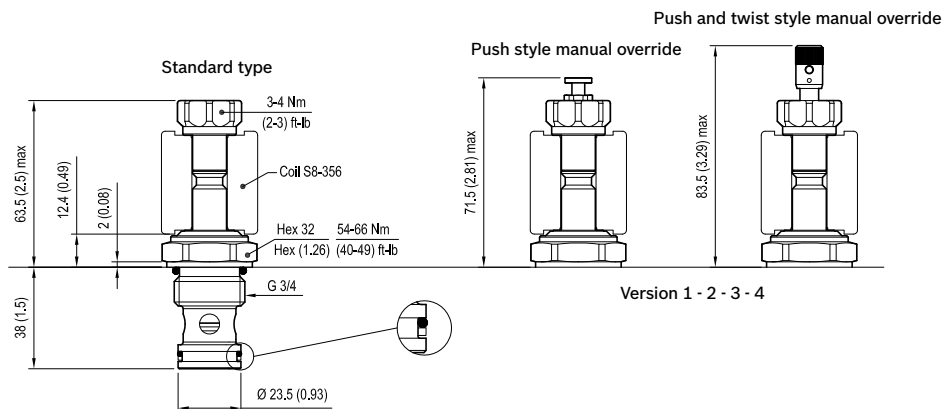
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

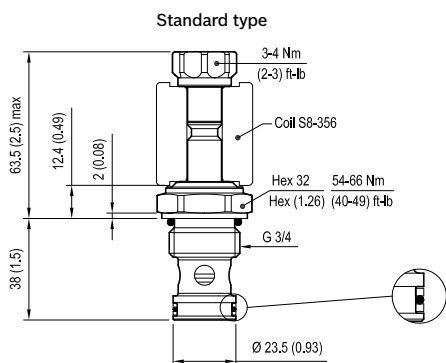
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open

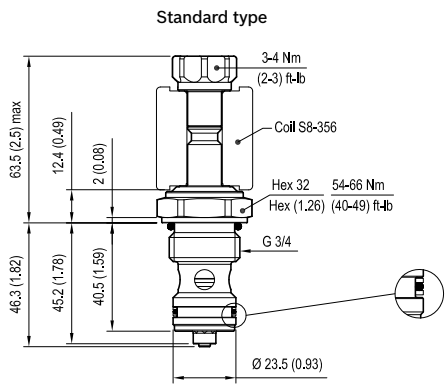


Version 2: Solenoid operated valve, poppet 2-way normally open

Version 3: Solenoid operated valve, poppet 2-way double lock normally open



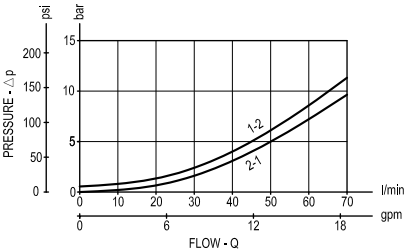
Version 4: Solenoid operated valve, poppet 2-way normally open



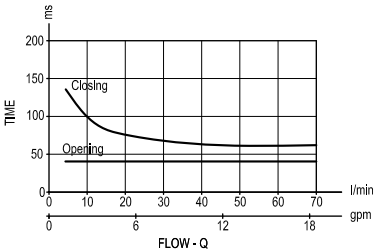
mm (Inches)

Performance graphs

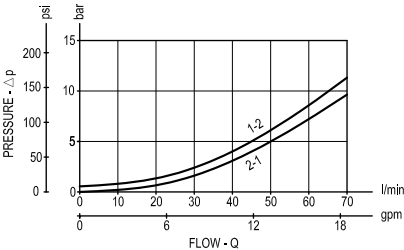
Version 1 - Version 2



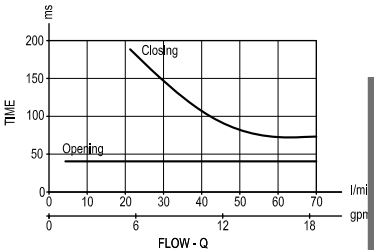
Standard



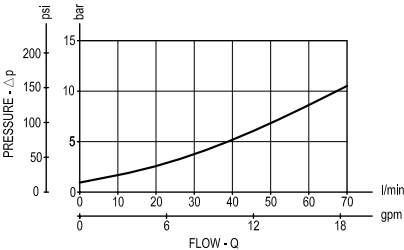
Version 3



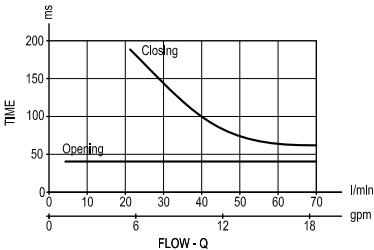
Standard



Version 4



Standard



Ordering code

OD.15

*

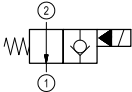
17

*

S0

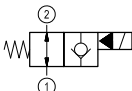
Solenoid operated valves
poppet type 2-way
normally open

monodirectional type



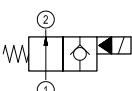
= 02

bidirectional type



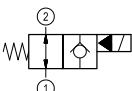
= 06

monodirectional type



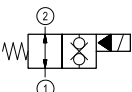
= 10

bidirectional type



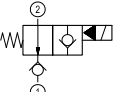
= 04

bidirectional type



= 32


monodirectional type




= 12

Tube not welded


standard type

1A = 

Push style manual override

1B = 

Push and twist style manual override

1C = 

Special cavity: 017-E

Type	Material number
OD1502171AS000	R934000718
OD1502171BS000	R934000721
OD1502171CS000	R901177370
OD1506171AS000	R901113677
OD1506171BS000	R901113680
OD1506171CS000	R934000956
OD1504171AS000	R901113668
OD1504171BS000	R901113669
OD1504171CS000	R934000809

Type	Material number
OD1510171AS000	R934001051
OD1510171BS000	R934004148
OD1510171CS000	R934001052
OD1512171AS000	R934001090
OD1532171AS000	R901113683
OD1532171BS000	R901113684
OD1532171CS000	R934001189

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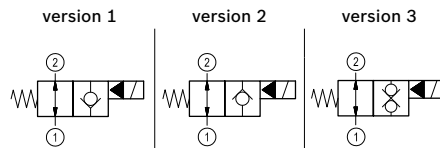
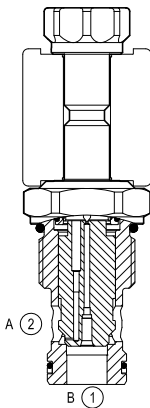
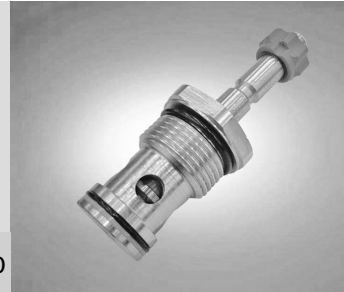
The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.
Subject to change.

Solenoid operated valves pilot operated poppet type 2-way normally open

Common cavity, Size 12

VEI-8A-12A-NA

OD.15 - X - 89 - Y - S0



4

General

Weight	kg (lbs)	0.23 (0.51)
Installation orientation	Optional	
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min. (gpm)	5-150 (1-40)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)	
Installation torque	Nm (ft-lbs)	54-66 (40-49)

Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
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Cavity	CA-12A-2N see RE 18325-75	
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Seal kit - version 1	code material no.	RG12A2010520100 R901111377
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Seal kit - version 2-3	code material no.	RG12A2010530100 R930003374
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Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
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Other technical data	See data sheet RE 18350-50	
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Electrical

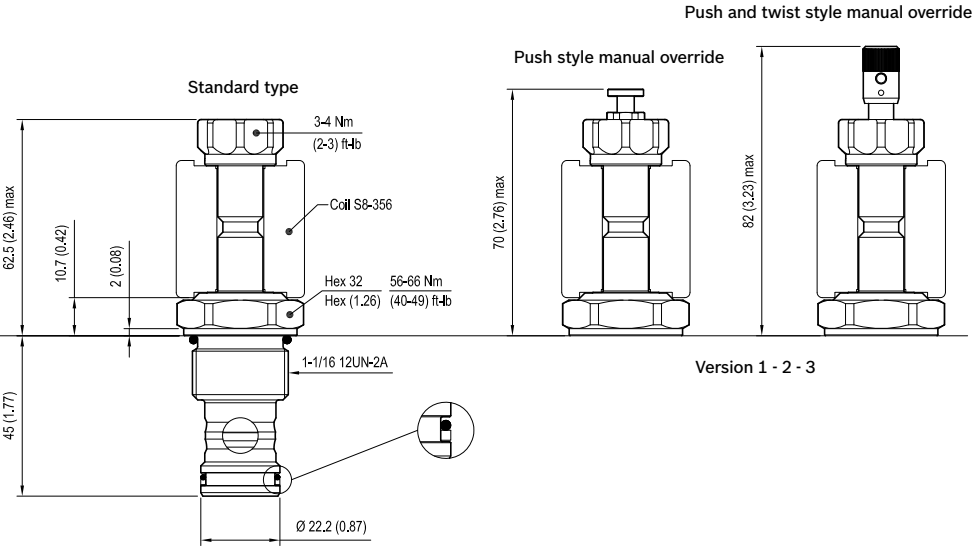
Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20

Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

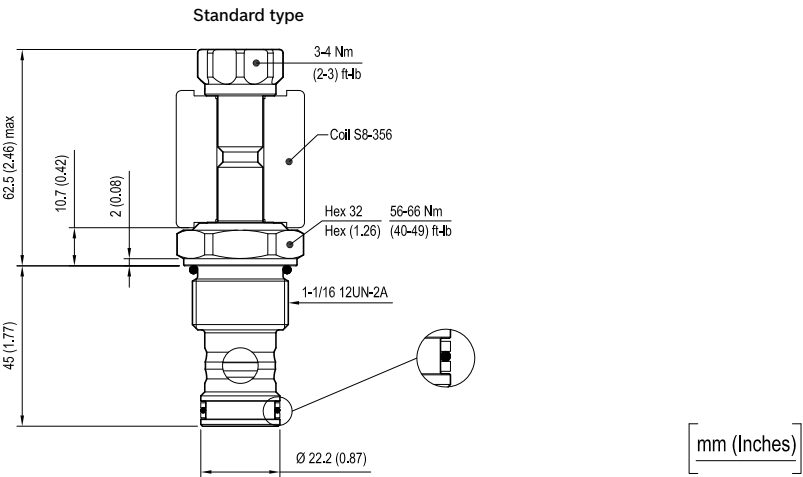
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open



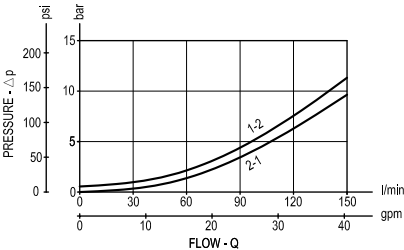
Version 2: Solenoid operated valve, poppet 2-way normally open

Version 3: Solenoid operated valve, poppet 2-way double lock normally open

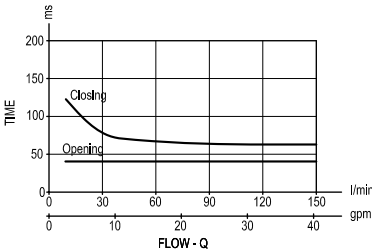


Performance graphs

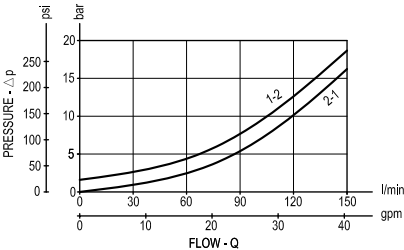
Version 1 - Version 2



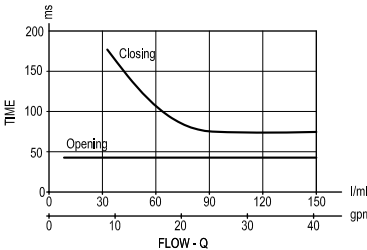
Standard



Version 3



Standard



Ordering code

OD.15

*

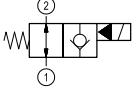
89

*

S0

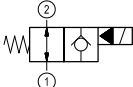
Solenoid operated valves
poppet type 2-way
normally open

monodirectional type



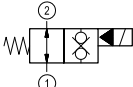
= 06

bidirectional type



= 04


monodirectional type with



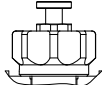
= 32

Tube not welded


standard type

1A = 

Push style manual override

1B = 

Push and twist style manual override

1C = 

Common cavity: CA-12A-2N

Type	Material number
OD1504891AS000	R901090961
OD1504891BS000	R901090960
OD1506891AS000	R901091139
OD1506891BS000	R901091140
OD1506891CS000	R901091141
OD1532891AS000	R901091179
OD1532891BS000	R901091180
OD1532891CS000	R901091182

Type	Material number

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Fax +39 059 547 848
cartridges@oilcontrol.com
www.boschrexroth.com

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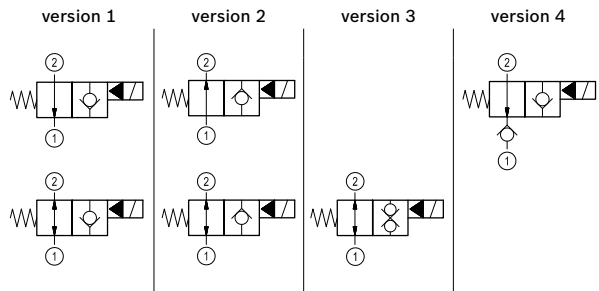
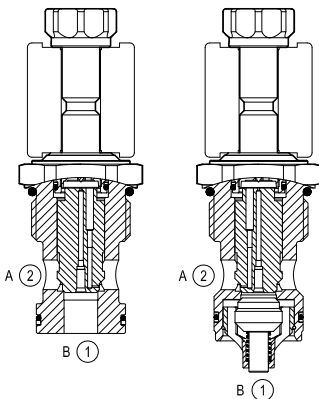
Subject to change.

Solenoid operated valves pilot operated poppet type 2-way normally open

Special cavity, 021-E

VEI-8A-12-NA

OD.15 - X - 21 - Y - S0



General

Weight	kg (lbs)	0.34 (0.75)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	5-150 (1-40)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	80-100 (59-74)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		021-E see RE 18325-75
Seal kit - version 1	code material no.	RG21E201052010 R934003566
Seal kit - version 2-3-4	code material no.	RG21E201053010 R934003567
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE 18350-50

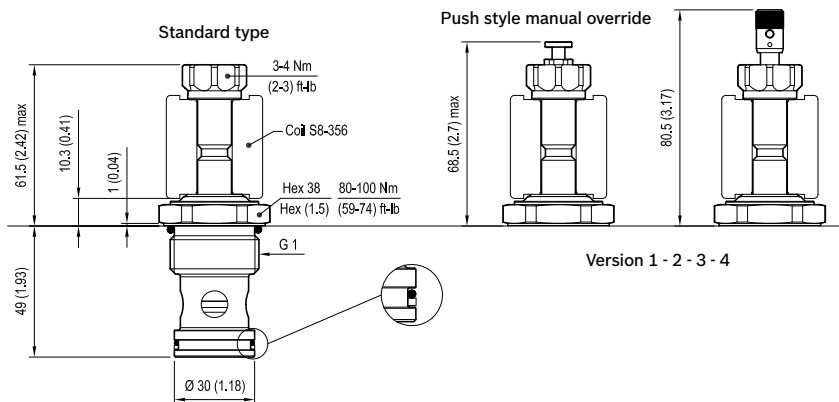
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W/20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

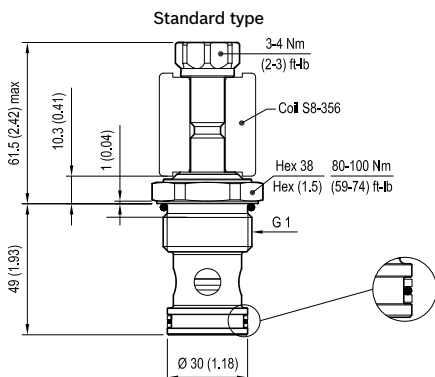
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open

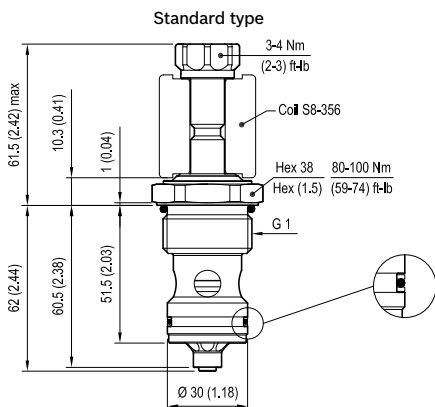


Version 2: Solenoid operated valve, poppet 2-way normally open

Version 3: Solenoid operated valve, poppet 2-way double lock normally open



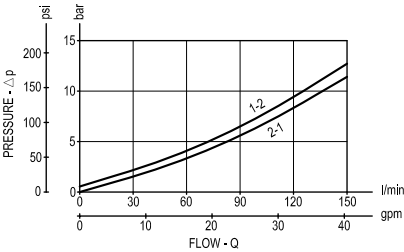
Version 4: Solenoid operated valve, poppet 2-way normally open



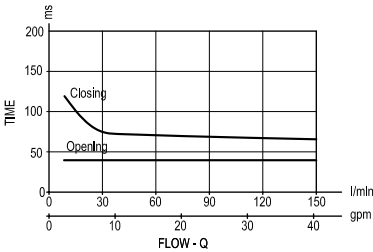
[mm (Inches)]

Performance graphs

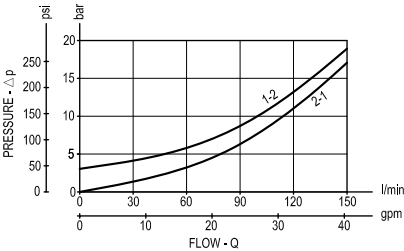
Version 1 - Version 2



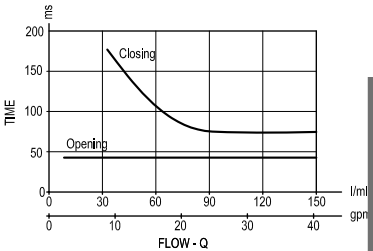
Standard



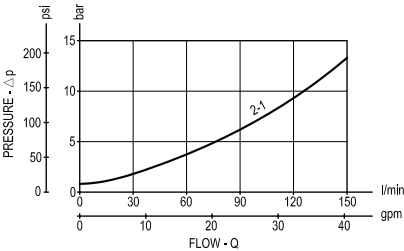
Version 3



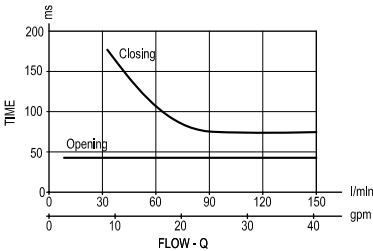
Standard



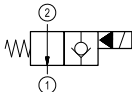

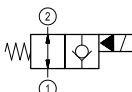

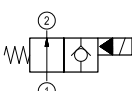

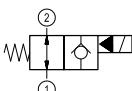
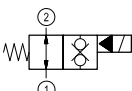
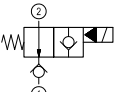
Version 4



Standard



Ordering code

OD.15	*	21	*	S0
Solenoid operated valves poppet type 2-way normally open		Tube not welded		
monodirectional type		standard type		
 = 02		1A = 		
bidirectional type		Push style manual override		
 = 06		1B = 		
monodirectional type		Push and twist style manual override		
 = 10		1C = 		
bidirectional type		Special cavity: 021-E		
 = 04				
bidirectional type				
 = 32				
monodirectional type				
 = 12				

Type	Material number
OD1502211AS000	R987067733
OD1502211BS000	R901186074
OD1502211CS000	R934000758
OD1504211AS000	R901113671
OD1504211BS000	R901113672
OD1504211CS000	R934000820
OD1506211AS000	R901104409
OD1506211BS000	R901113681
OD1506211CS000	R901172041

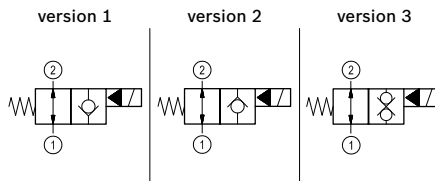
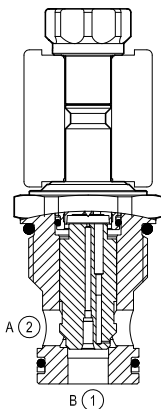
Type	Material number
OD1510211AS000	R901085464
OD1510211BS000	R934001061
OD1512211AS000	R934001100
OD1512211BS000	R934001101
OD1512211CS000	R934001102
OD1532211AS000	R901104415
OD1532211BS000	R901113685
OD1532211CS000	R901191824

Solenoid operated valves pilot operated poppet type 2-way normally open

Common cavity, Size 16

VEI-8A-16A-NA

OD.15 - X - 75 - Y - S0



General

Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Flow range	l/min. (gpm)	5-150 (1-40)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 80-100 (59-74)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-16A-2N see RE 18325-75

Seal kit - version 1 code RG16A2010520100 material no. R901111386

Seal kit - version 2-3 code RG16A2010530100 material no. R930003262

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

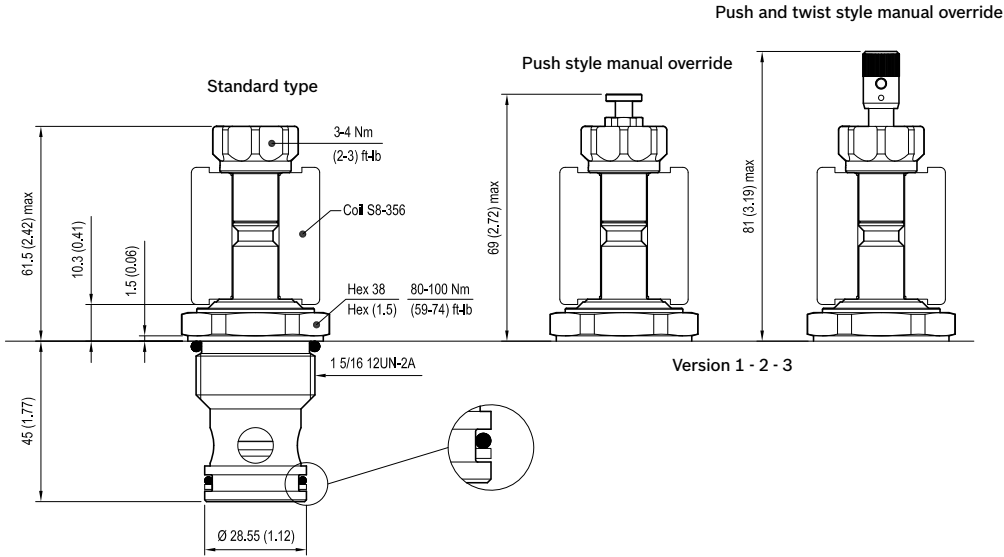
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

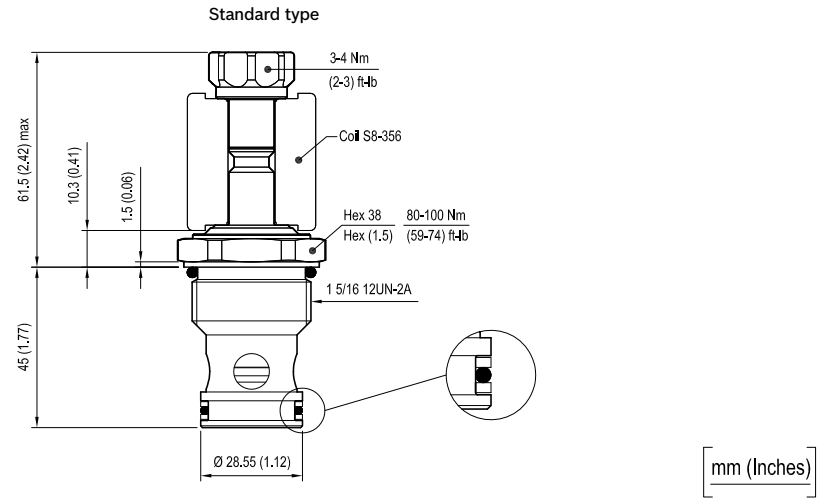
Dimensions

Version 1: Solenoid operated valve, poppet 2-way normally open



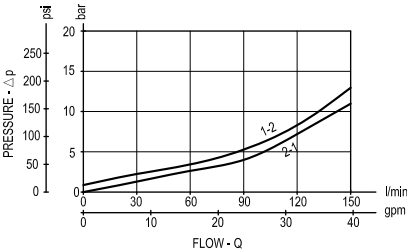
Version 2: Solenoid operated valve, poppet 2-way normally open

Version 3: Solenoid operated valve, poppet 2-way double lock normally open

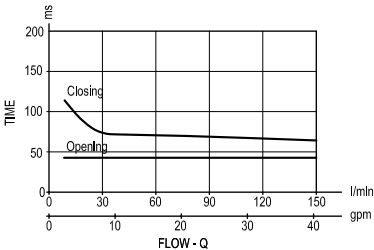


Performance graphs

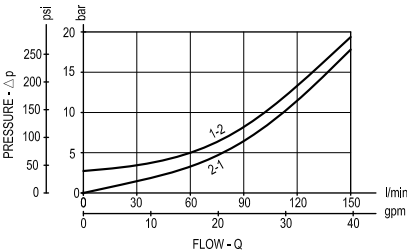
Version 1 - Version 2



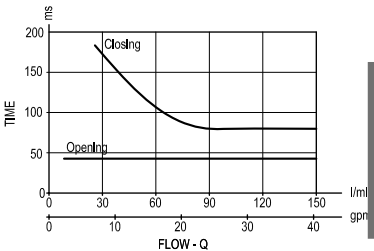
Standard



Version 3



Standard



Ordering code

OD.15

*

75

*

S0

Solenoid operated valves
poppet type 2-way
normally open

bidirectional type

= 06

bidirectional type

= 04

double lock

= 32

Tube not welded

standard type

1A =

Push style manual override

1B =

Push and twist style manual override

1C =

Common cavity: CA-16A-2N

Type	Material number
OD1504751AS000	R901094731
OD1506751AS000	R901095953
OD1506751BS000	R901095955
OD1506751CS000	R901095956
OD1532751AS000	R901094753
OD1532751BS000	R901094754
OD1532751CS000	R901094755

Type	Material number

Bosch Rexroth Oil Control S.p.A.
Via Leonardo da Vinci 5
P.O. Box no. 5
41015 Nonantola – Modena, Italy
Tel. +39 059 887 611
Fax +39 059 547 848
cartridges@oilcontrol.com
www.boschrexroth.com

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The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

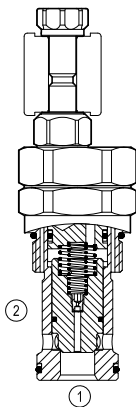
Subject to change.

Solenoid operated valves pilot operated
poppet 2-way normally open

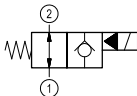
Special cavity, 004

VEI-8A-2B-16-NA-NSS

OD.15.04.04 - Y - S0



version 04



4

General

Weight	kg (lbs)	1.13 (2.5)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Max. proof pressure	bar (psi)	420 (6000)
Rated flow	l/min. (gpm)	260 (69)
Fatigue cycle life	cycles	1 million cycles at 350 bar
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	110-130 (81-96)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Special cavity		004 see RE 18325-75
Seal kit	code material no.	RG0004020520100 R930001696
Seal kit coil	code material no.	RG12A1PNBR7010 R934003958
Other technical data		See data sheet RE 18350-50

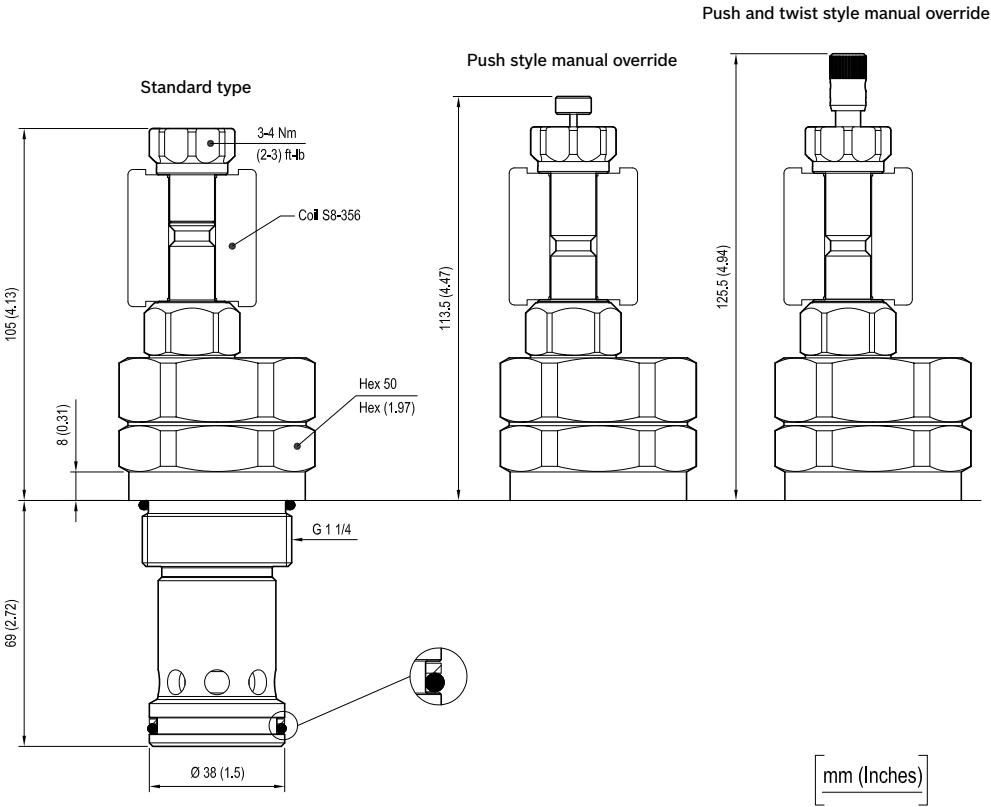
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

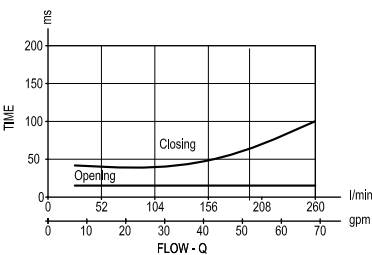
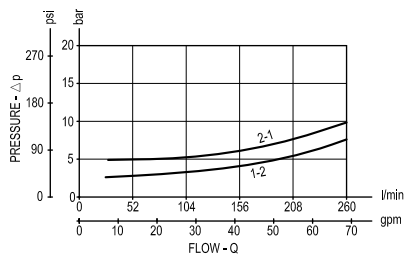
Dimensions

Solenoid operated valve, poppet 2-way normally open - Special cavity

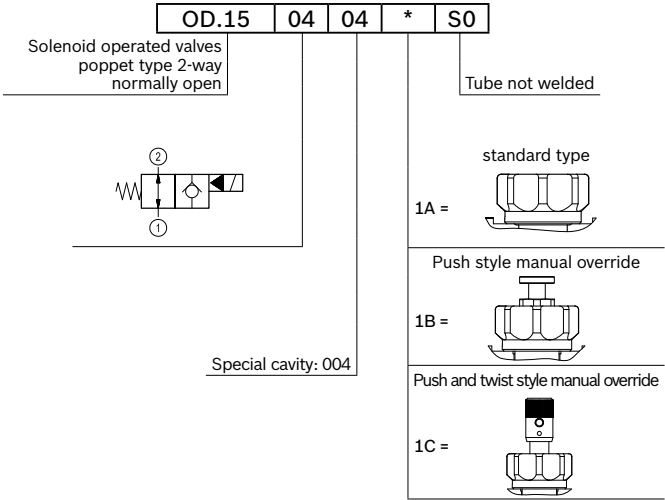


Performance graphs

Version 04



Ordering code



Type	Material number
OD1504041AS000	R901091118
OD1504041BS000	R901091119
OD1504041CS000	R901091120

Type	Material number

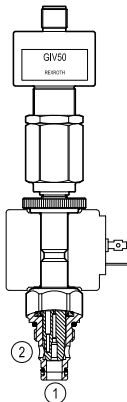
Solenoid operated valves pilot operated poppet 2-way normally open proximity sensor

Common cavity, Size 08

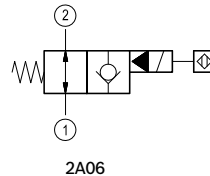


VEI-8A-2A-06-NA-S-M-NSS

OD.15.06.18.1D.S2 - Z



Version 06



General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	2.5-40 (0.66-11)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	30-35 (22-26)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit	code material no.	RG08A201052010 R901101437
Other technical data		See data sheet RE 18350-50

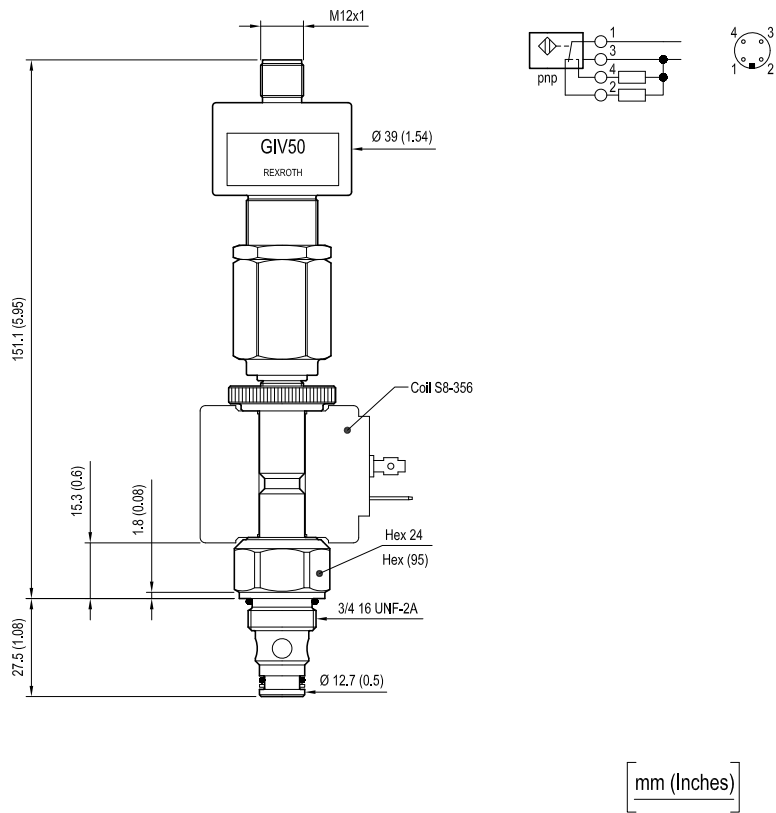
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

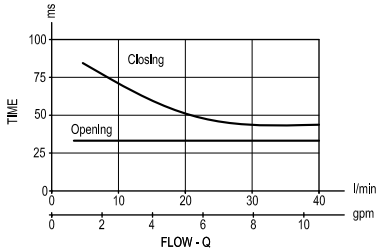
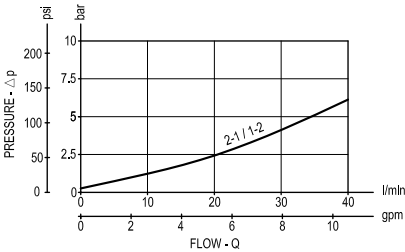
Please consider that a proper fuction of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



Performance graphs



Ordering code

OD.15

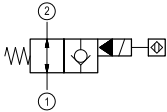
06

18

1DS2

Z

Solenoid operated valves
poppet 2-way normally
open proximity sensor



OB = 12 V DC

OC = 24 V DC

Note: please consult factory for
different voltages.

Common cavity: CA-08A-2N

Type	Material number
OD1506181DS2OB	R934001226
OD1506181DS2OC	R934001227

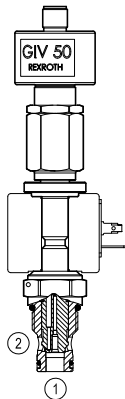
Type	Material number

Solenoid operated valves pilot operated poppet 2-way normally open proximity sensor

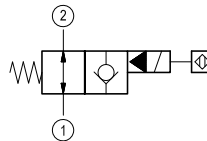
Special cavity, 076-E

VEI-8A-2A-09-NA-S-M-NSS

OD.15.06.76.1D.S2 - Z



Version 06



2A06

General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	2.5-70 (0.66-18)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	41-47 (30-35)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Special cavity		076-E see RE 18325-75
Seal kit	code material no.	RG10A201052010 R901111363
Other technical data		See data sheet RE 18350-50

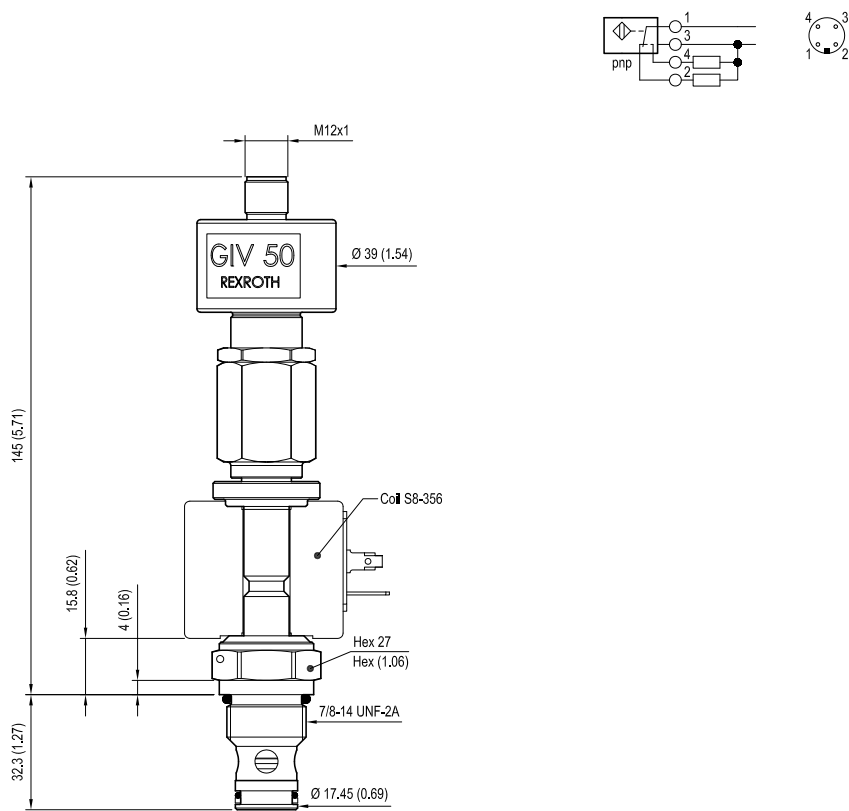
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Please consider that a proper fuction of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

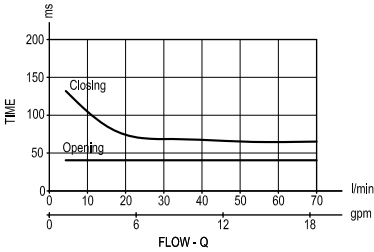
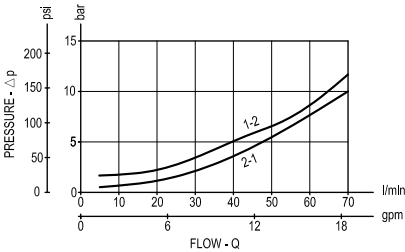
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



mm (Inches)

Performance graphs



Ordering code

OD.15

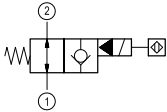
06

76

1D.S2

Z

Solenoid operated valves
poppet 2-way normally
open proximity sensor



AC = 26 V DC

Note: please consult factory for
different voltages.

Special cavity: 076-E

Type	Material number
OD1506761DS2AC	R934001233

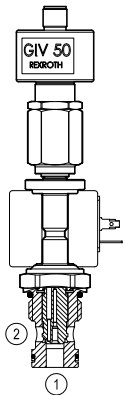
Type	Material number

Solenoid operated valves pilot
operated poppet 2-way normally open
proximity sensor
Special cavity, 017-E

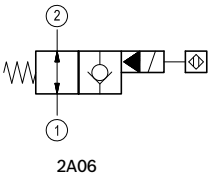


VEI-8A-2A-09-NA-S-M-NSS

OD.15.06.17.1D.S0 - Z



Version 06



4

General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	3.5-70 (1-18)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	50-55 (37-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		017-E see RE 18325-75
Seal kit	code material no.	RG17E201052010 R934003562
Other technical data		See data sheet RE 18350-50

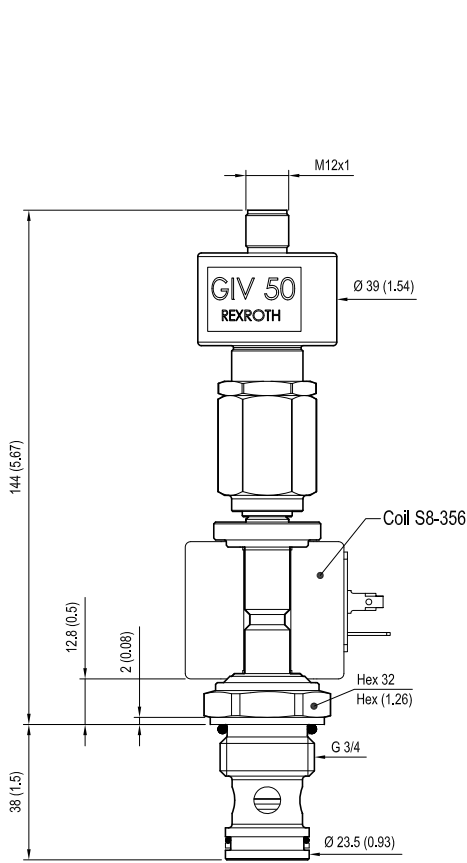
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Please consider that a proper fuction of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

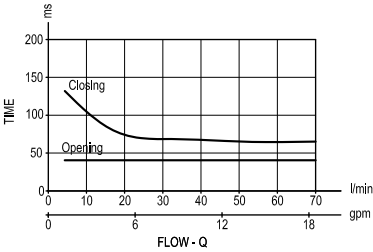
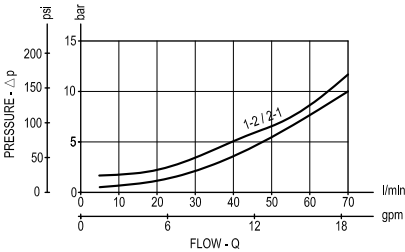
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



[mm (Inches)]

Performance graphs



Ordering code

OD.15

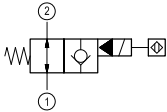
06

17

1D.S0

*

Solenoid operated valves
poppet 2-way normally
open proximity sensor



OB = 12 V DC

OC = 24 V DC

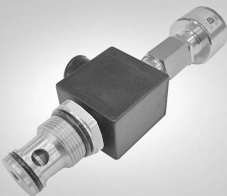
Note: please consult factory for
different voltages.

Special cavity: 017-E

Type	Material number
OD1506171DS2OB	R934001215
OD1506171DS2OC	R934001206

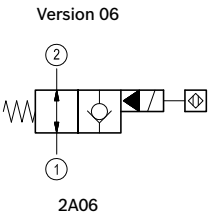
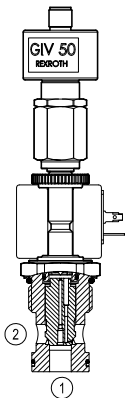
Type	Material number

Solenoid operated valves pilot
operated poppet 2-way normally open
proximity sensor
Special cavity, 021-E



VEI-8A-2A-12-NA-S-M-NSS

OD.15.06.21.1D.S2 - Z



General

Weight	kg (lbs)	0.85 (1.9)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	3.5-150 (0.9-40)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	80-85 (59-63)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		021-E see RE 18325-75
Seal kit	code material no.	RG21E201052010 R934003566
Other technical data		See data sheet RE 18350-50

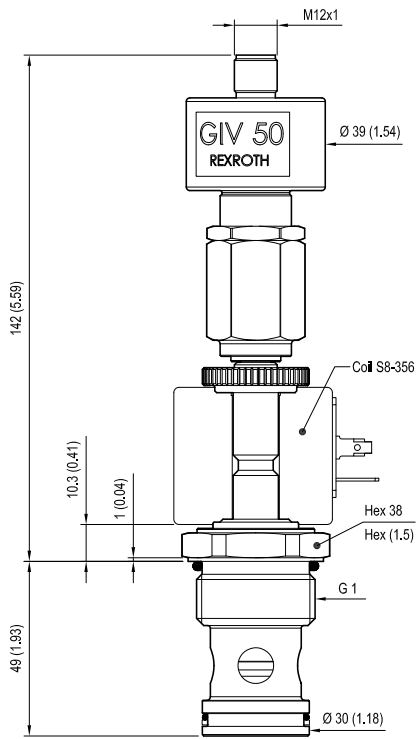
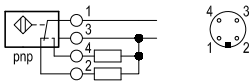
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Please consider that a proper fuction of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

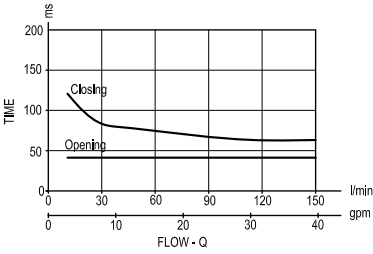
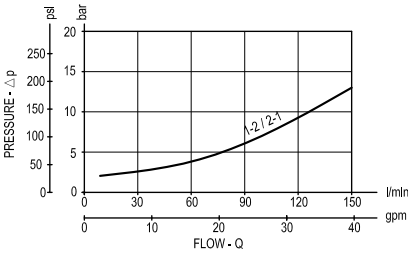
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor



mm (Inches)

Performance graphs



Ordering code

OD.15

06

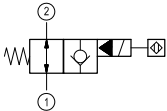
21

1D

S2

Z

Solenoid operated valves
poppet 2-way normally
open proximity sensor



OB = 12 V DC

OC = 24 V DC

Note: please consult factory for
different voltages.

Special cavity: 021E

Type	Material number
OD1506211DS2OB	R934001228
OD1506211DS2OC	R934001208

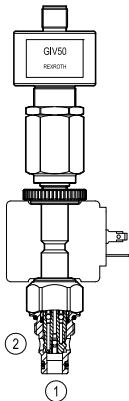
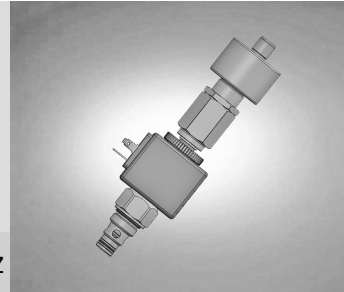
Type	Material number

Solenoid operated valves pilot operated poppet 2-way normally open proximity sensor

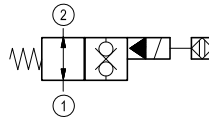
Common cavity, Size 08

VEI-8A-2T-06-NA-S-M-NSS

OD.15.32.18.1D.S2 - Z



Version 32



4

General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	2.5-40 (0.66-11)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	30-35 (22-26)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit	code material no.	RG08A2010530100 R901101544
Other technical data		See data sheet RE 18350-50

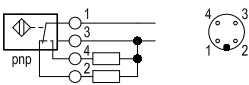
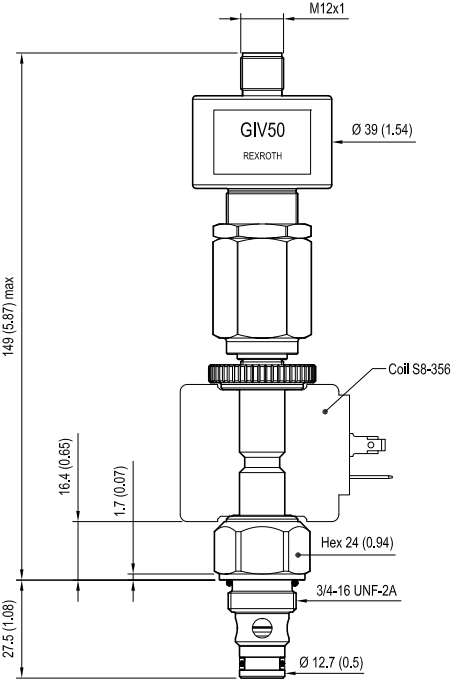
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Please consider that a proper fuction of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

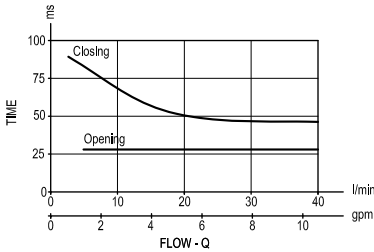
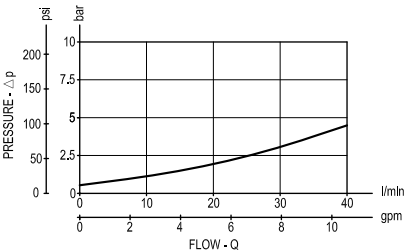
Dimensions

Solenoid operated valves poppet 2-way normally open proximity sensor

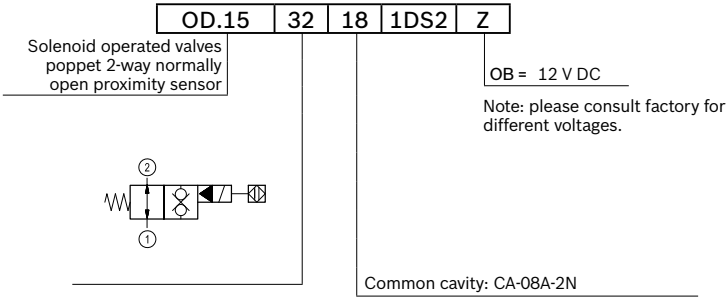


mm (Inches)

Performance graphs



Ordering code



Type	Material number
OD1532181DS2OB	R934004542

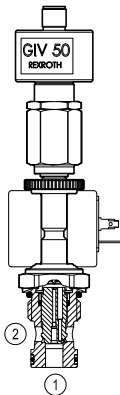
Type	Material number

Solenoid operated valves pilot operated poppet 2-way normally open double lock proximity sensor Special cavity, 017-E

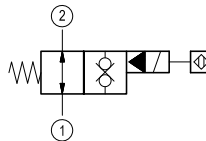


VEI-8A-2T-09-NA-S-M-NSS

OD.15.32.17.1D.S2 - Z



Version 32



2T32

General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Flow range	l/min.(gpm)	2.5-70 (0.66-18)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	50-55 (37-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		017-E see RE 18325-75
Seal kit	code	RG17E201053010
	material no.	R934003563
Other technical data		See data sheet RE 18350-50

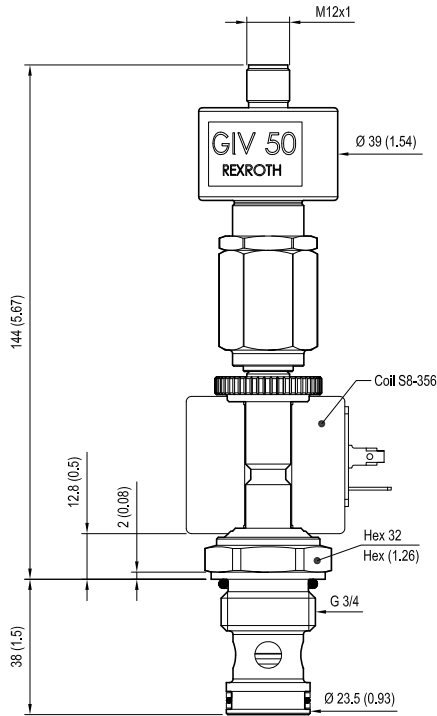
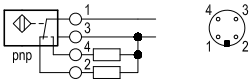
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Please consider that a proper fuccion of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

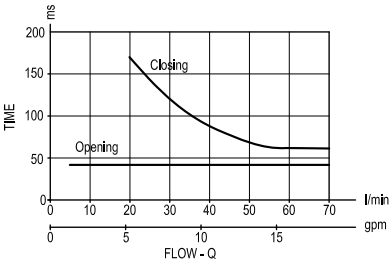
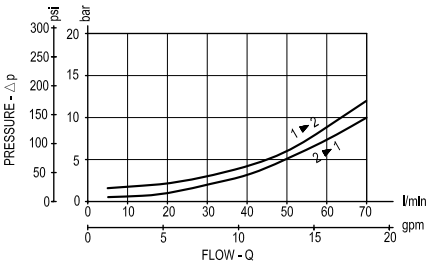
Dimensions

Solenoid operated valves poppet 2-way normally open double lock roximity sensor

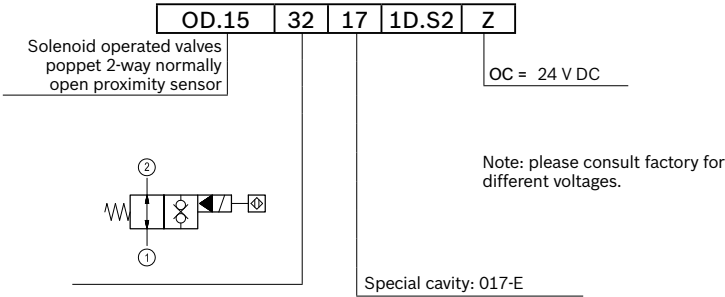


mm (Inches)

Performance graphs



Ordering code

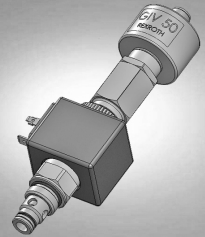


Type	Material number
OD1532171DS2OC	R934001235

Type	Material number

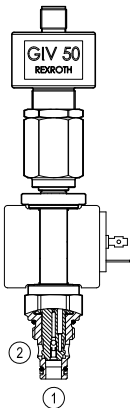
Solenoid operated valves pilot operated poppet 2-way normally closed proximity sensor

Common cavity, Size 08

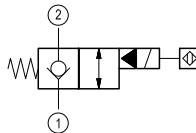


VESP-08A-12A/00-2A05-N7

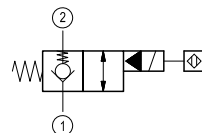
OD.15.05.18.41 - Y - Z



Version 05



Version 85



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5075)
Proof pressure	bar (psi)	420 (6000)
Flow range	l/min.(gpm)	1-40 (0.3-11)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 30-35 (22-26)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-70

Seal kit code RG08A201052010 material no. R901101437

Other technical data See data sheet RE 18350-50

(*) (cSt 46)

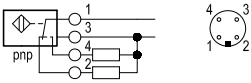
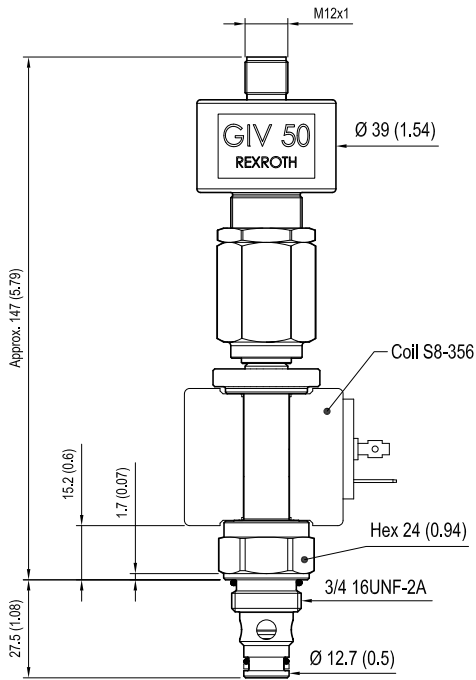
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Please consider that a proper fuction of the valve is guaranteed only if the position of the monitor is not modified; each cartridge is provided of a torque confirmation mark, intended as anti-tampering device.

Dimensions

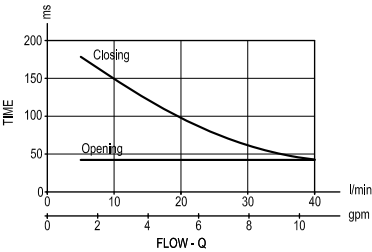
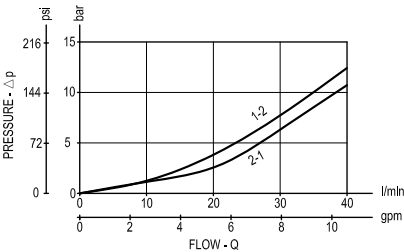
Solenoid operated valves poppet 2-way normally closed proximity sensor



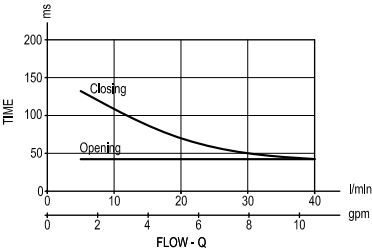
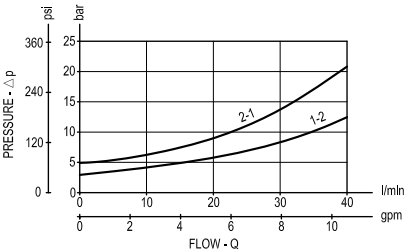
mm (Inches)

Performance graphs

Version 05



Version 85



Ordering code

OD.15

05

18

41

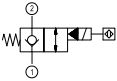
Y

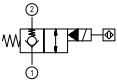
Z

Solenoid operated valves
poppet 2-way normally
closed proximity sensor

OC = 24 V DC

Note: please consult factory for
different voltages.

05 = 

85 = 

Common cavity: CA-08A-2N

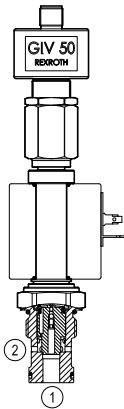
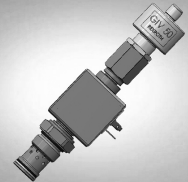
Type	Material number
OD1505184105OC	R934004319
OD1505184185OC	R934004320

Type	Material number

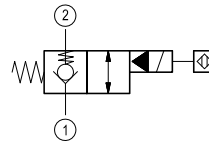
Solenoid operated valves pilot operated poppet 2-way normally closed proximity sensor - extra spring Special cavity, 017-E

VESP-12G-16A/00-2A05-N7

OD.15.05.17.65.04 - Z



Version 05



4

General

Weight	kg (lbs)	0.75 (1.7)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

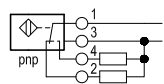
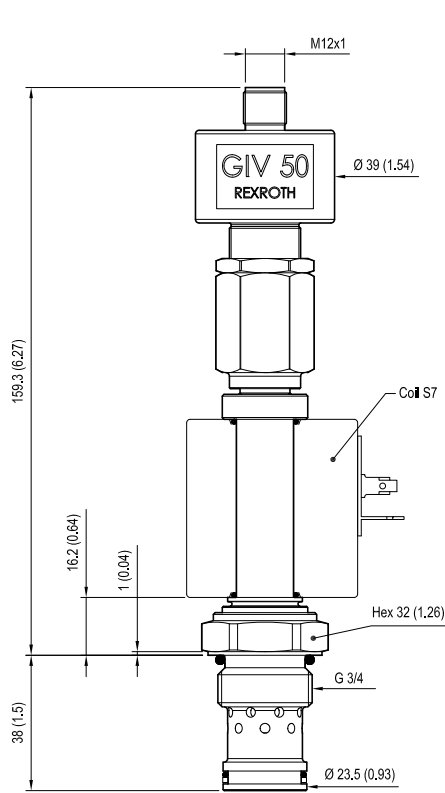
Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	5-70 (1-18)
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	50-55 (37-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		017-E see RE 18325-75
Seal kit	code	RG17E201052010
	material no.	R934003562
Other technical data		See data sheet RE 18350-50

Electrical

Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 30
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

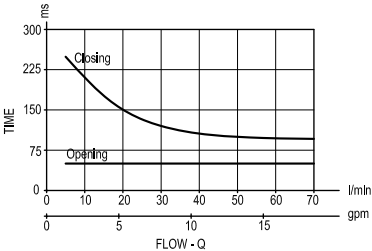
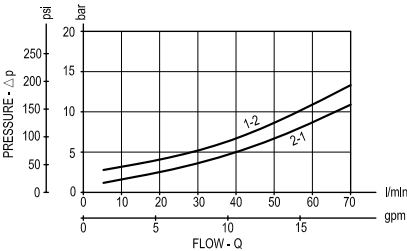
Dimensions

Solenoid operated valves poppet 2-way normally closed proximity sensor



mm (Inches)

Performance graphs



Ordering code

OD.15

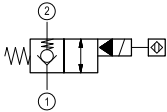
05

17

6504

Z

Solenoid operated valves
poppet 2-way normally closed
proximity sensor - extra spring



OB = 12 V DC

OC = 24 V DC

Note: please consult factory for
different voltages.

Special cavity: 017-E

Type	Material number
OD1505176504OB	R934004675
OD1505176504OC	R934004674

Type	Material number

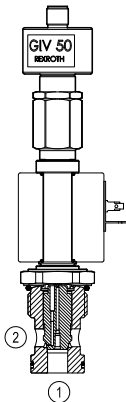
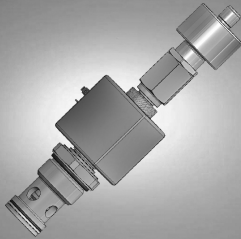
Solenoid operated valves pilot operated
poppet 2-way normally closed
proximity sensor
Special cavity, 021-E

VESP-16G-16A/00-2A-N7

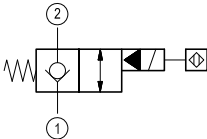
OD.15.05.21.65 - Y - Z

RE 18325-05/02.12
Replaces: RE 00162-02/01.06

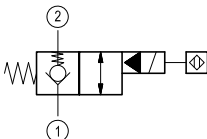
1/4



Version 04



Version 84



4

General

Weight	kg (lbs)	0.9 (2)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

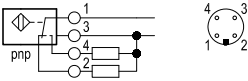
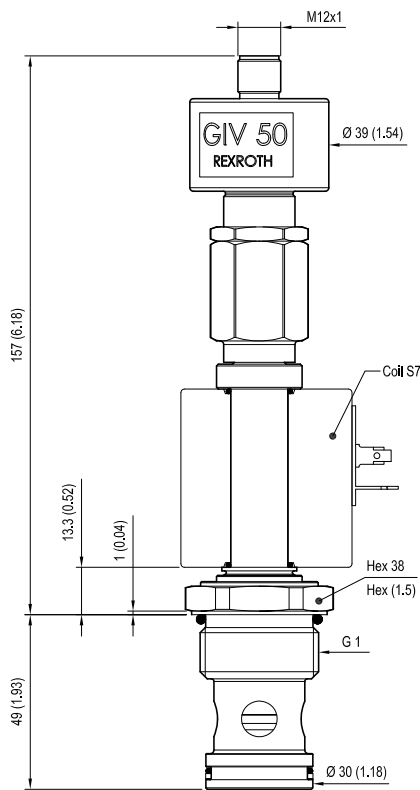
Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	5-150 (1-40)
Max. internal leakage (*)	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	80-85 (59-63)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		021-E see RE 18325-75
Seal kit	code	RG21E201052010
	material no.	R934003566
Other technical data		See data sheet RE 18350-50
(*) (cSt 46)		

Electrical

Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE18325-90
Nominal voltage	± 10%
Power consumption	W 30
Duty cycle	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Dimensions

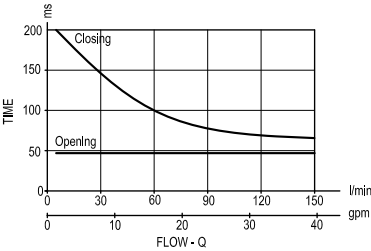
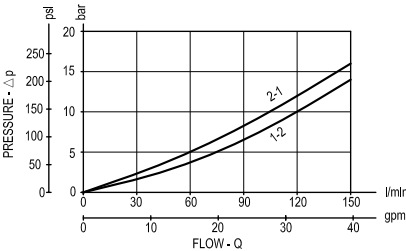
Solenoid operated valves poppet 2-way normally closed proximity sensor



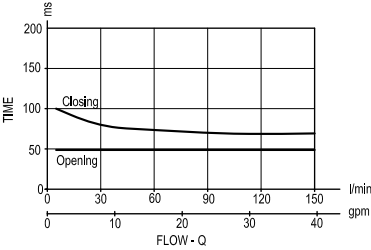
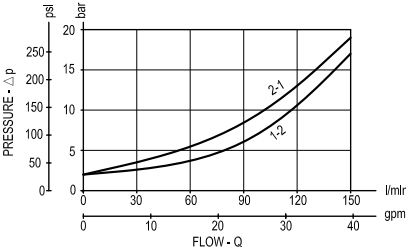
mm (Inches)

Performance graphs

Version 04



Version 84



Ordering code

OD.15	05	21	65	Y	Z
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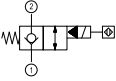
Solenoid operated valves
poppet 2-way normally closed
proximity sensor

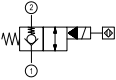
Special cavity: 021-E

OB = 12 V DC for Y= 84

OC = 24 V DC for Y= 04 or 84

Note: please consult factory for
different voltages.

04 =


84 =


Type	Material number
OD1505216504OC	R934004627
OD1505216584OB	R934004630
OD1505216584OC	R934004628

Type	Material number

Solenoid Cartridge Valves

On-off direct acting

Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid cartridge valves direct acting 2 way poppet type normally closed	VED-8I-NC	Size 08	OD11X18Y00	RE 18324-06	783
Solenoid cartridge valves direct acting 2 way poppet type normally open	VED-8I-NA	Size 08	OD11X18Y00	RE 18324-07	787
Solenoid cartridge valves direct acting 2 way poppet type normally closed double lock	VEDT-08A-A-12-NC	Size 08	OD113118Y00	RE 18324-01	791
Solenoid cartridge valves direct acting 2 way poppet type normally closed double lock	VEDT-08A-A-16-NC	Size 08	OD1131186Y00	RE 18324-03	795
Solenoid cartridge valves direct acting 2 way poppet type double lock	VEDT-08F-A-16	Special	OD11X40Y00	RE 18324-04	799
Solenoid cartridge valves direct acting poppet 3 way 2 position	VEDT-08A-32	Size 08	OD130151Y00	RE 18324-05	803
Solenoid cartridge valves direct acting 3 way 2 position spool type	VEDS-08A-32	Size 08	OD13X51Y00	RE 18324-50	807
Solenoid cartridge valves direct acting 4 way 2 position spool type	VEDS-08A-42	Size 08	OD14X58Y00	RE 18324-51	811
Solenoid cartridge valves direct acting 4 way 3 position spool type	VEDS-08A-43	Size 08	OD14X582A00	RE 18324-52	815
Solenoid cartridge valves direct acting 3 way 2 position spool type	VED-10A-32	Size 10	OD13X77Y00	RE 18324-58	819
Solenoid cartridge valves direct acting 4 way 2 position spool type	VED-10A-42	Size 10	OD144W78Y00	RE 18324-59	823
Solenoid cartridge valves direct acting 4 way 3 position spool type	VED-10A-43	Size 10	OD143W78Y00	RE 18324-60	827

Solenoid Cartridge Valves

On-off direct acting

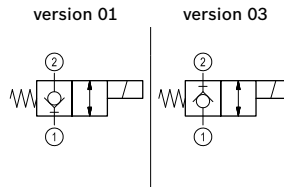
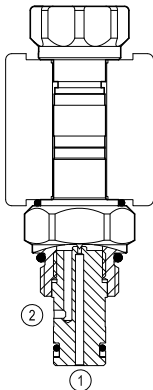
Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid cartridge valves direct acting 3 way 2 position spool type	VEDS-12A-32	Size 12	OD13X12Y00	RE 18324-56	831

Solenoid operated valves direct acting poppet 2-way normally closed

Common cavity, Size 08

VED-8I-NC

OD.11 - X - 18 - Y - 00



4

General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Rated flow	l/min. (gpm)	1.5 (0.4)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit	code	RG08A2010520100
	material no.	R901101437
Seal kit coil	code	RG1211PNBR7010
	material no.	R934003957
Other technical data		See data sheet RE 18350-50

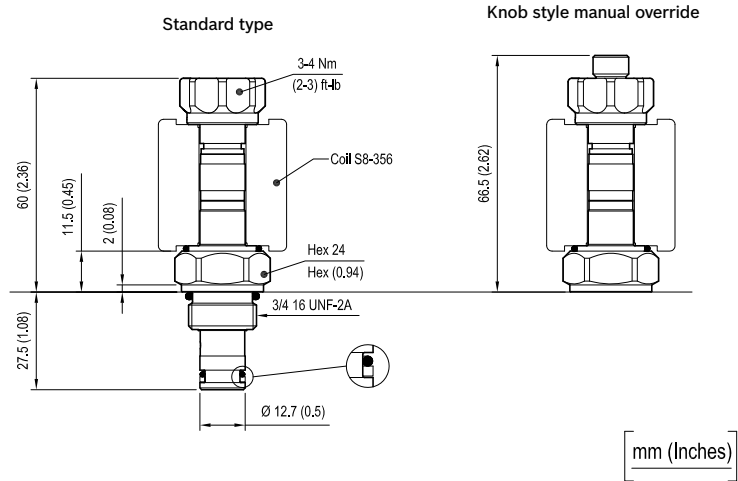
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

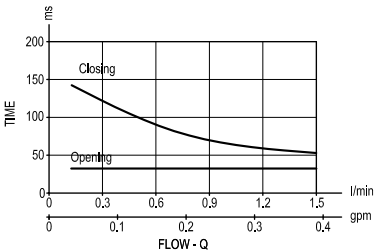
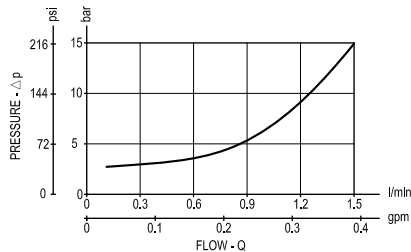
Dimensions

Solenoid operated valves poppet 2-way normally closed

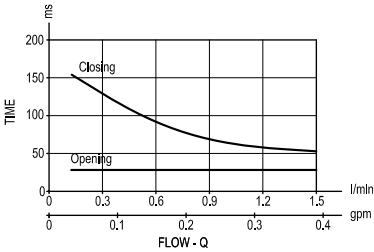
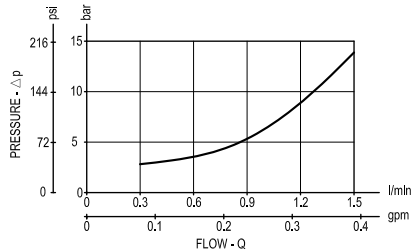


Performance graph

Version 01



Version 03



Ordering code

OD.11

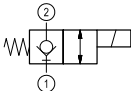
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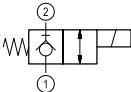
18

*


00

Solenoid operated valves
poppet 2-way normally
closed


 = 01

 = 03

standard type

31 = 

Knob style manual override

32 = 

Common cavity: CA-08A-2N

Type	Material number
OD110118310000	R901090901
OD110118320000	R901090903
OD110318310000	R901090909
OD110318320000	R901090910

Type	Material number

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Fax +39 059 547 848
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www.boschrexroth.com

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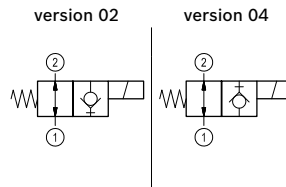
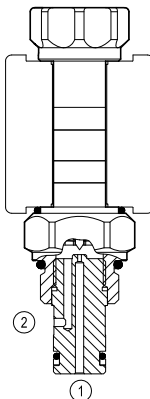
Subject to change.

Solenoid operated valves direct acting poppet 2-way normally open

Common cavity, Size 08

VED-8I-NA

OD.11 - X - 18 - Y - 00



4

General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation	Optional	
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Rated flow	l/min. (gpm)	1.5 (0.4)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 25µm (NAS 8) ISO 4406 19/17/14

Common cavity CA-08A-2N see RE 18325-70

Seal kit code RG08A2010520100 material no. R901101437

Seal kit coil code RG12I1PNBR7010 material no. R934003957

Other technical data See data sheet RE 18350-50

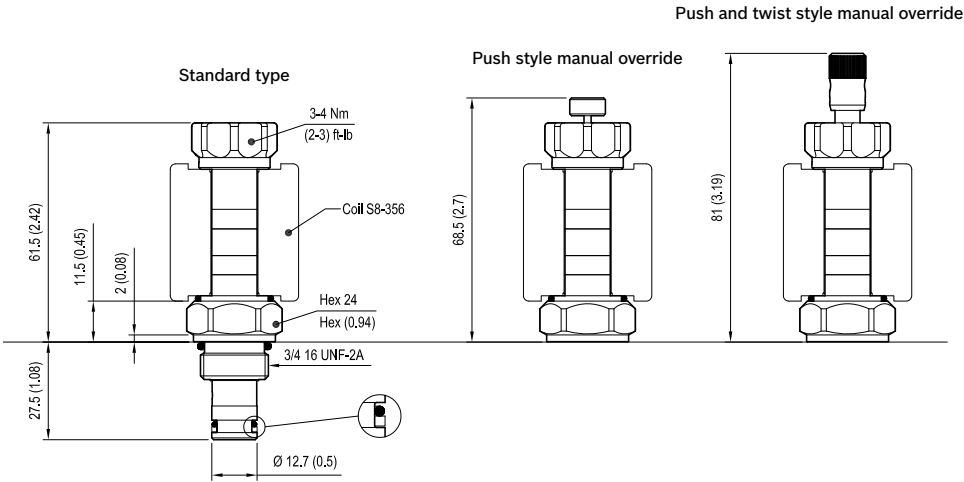
Electrical

Type of voltage	DC voltage
Coil type	S8-356 see RE 18325-90
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

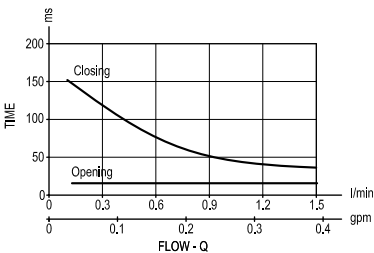
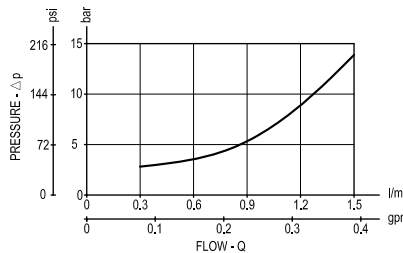
Solenoid operated valves poppet 2-way normally open



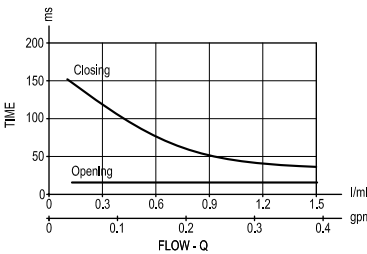
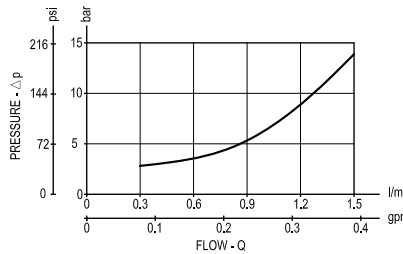
[mm (Inches)]

Performance graphs

Version 02



Version 04



Ordering code

OD.11

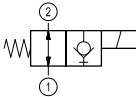
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18

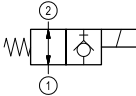
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Solenoid operated valves
poppet type 2-way
normally open




= 02



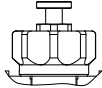
= 04

Common cavity: CA-08A-2N

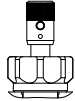
standard type

20 = 

Push style manual override

21 = 

Push and twist style manual override

22 = 

Type	Material number
OD110218200000	R901090905
OD110218210000	R901090906
OD110218220000	R901090908
OD110418200000	R901090911
OD110418210000	R901090914
OD110418220000	R901090915

Type	Material number

Bosch Rexroth Oil Control S.p.A.
Via Leonardo da Vinci 5
P.O. Box no. 5
41015 Nonantola – Modena, Italy
Tel. +39 059 887 611
Fax +39 059 547 848
cartridges@oilcontrol.com
www.boschrexroth.com

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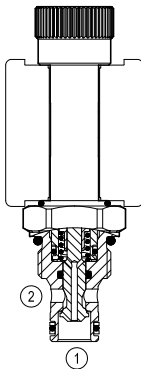
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Subject to change.

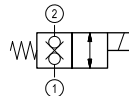
Solenoid operated valves direct acting poppet 2-way double lock normally closed Common cavity, Size 08

VEDT-08A-A-12.7-NC

OD.11.31.18 - Y - 00



Version 31



4

General

Weight	kg (lbs)	0.19 (0.42)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	250 (3600)
Max. flow	l/min.(gpm)	15 (4)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Response time	ms.	40-60 at nominal flow (oil at 46 cSt)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	34-41 (25-30)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit	code	RG08A2010530100
	material no.	R901101544
Seal kit coil	code	RG12A1PNBR7010
	material no.	R934003958
Other technical data		See data sheet RE 18350-50

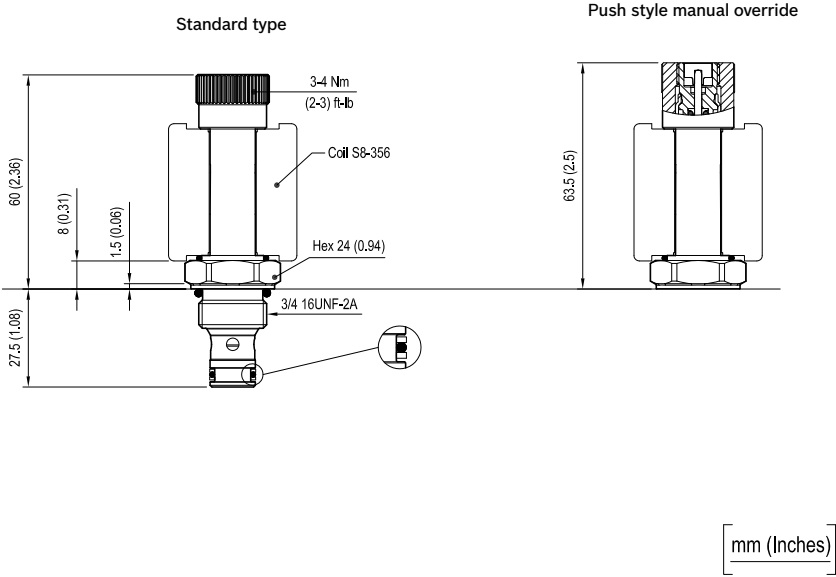
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 20
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

Dimensions

Solenoid operated valves poppet 2-way double lock normally closed

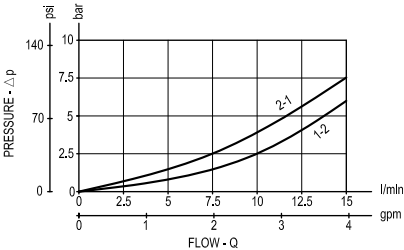
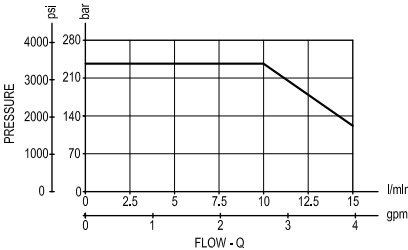


Performance graphs

Performance limits

Characteristic curves

version 31



Ordering code

OD.11

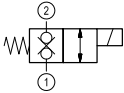
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18

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
Solenoid operated valves
poppet 2-way double lock
normally closed




= 31

Common cavity: CA-08A-2N

standard type

2A = 

Push style manual override

2B = 

Type	Material number
OD1131182A0000	R934003626
OD1131182B0000	R934003627

Type	Material number

Bosch Rexroth Oil Control S.p.A.
Via Leonardo da Vinci 5
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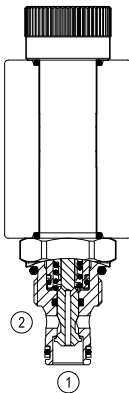
Solenoid operated valves direct acting poppet 2-way double lock normally closed

Common cavity, Size 08

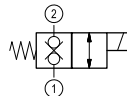


VEDT-08A-A-16-NC

OD.11.31.18 - 6Y - 00



Version 31



General

Weight	kg (lbs)	0.22 (0.48)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W -30 to 80 (-22 to 176) - coil 26W

Hydraulic

Max. operating pressure	bar (psi)	250 (3600)
Max. flow	l/min. (gpm)	25 (7)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Response time	ms.	40-60 at nominal flow (oil at 46 cSt)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	34-41 (25-30)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit	code material no.	RG08A2010530100 R901101544
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18350-50

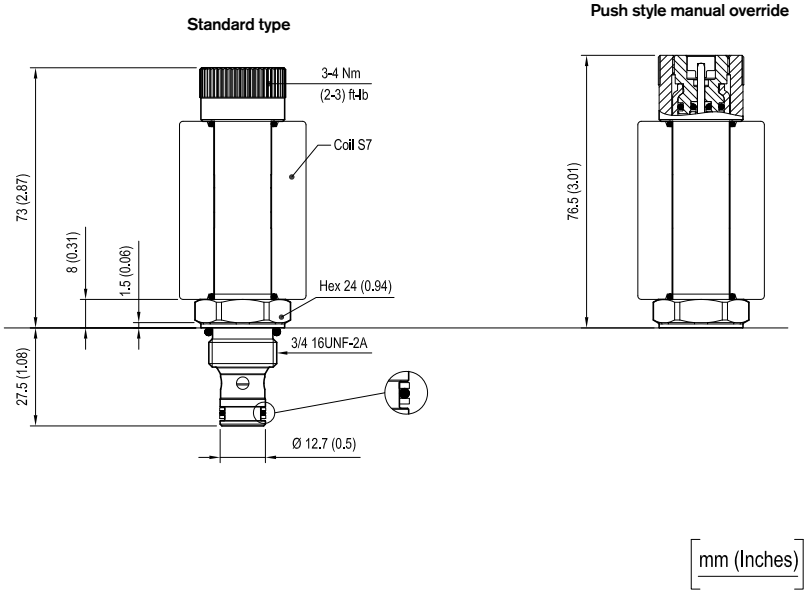
Electrical

Type of voltage		DC voltage
Coil type		S7
Supply voltage		See data sheet RE 18325-90
Power consumption	W	30 or 26
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE 18325-90
Nominal voltage	coil 26W	-15% +10%
Nominal voltage	coil 30W	-10% +10%

Note: Coils must be ordered separately.

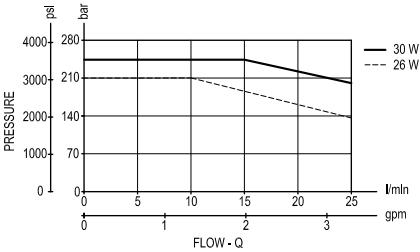
Dimensions

Solenoid operated valves poppet 2-way double lock normally closed



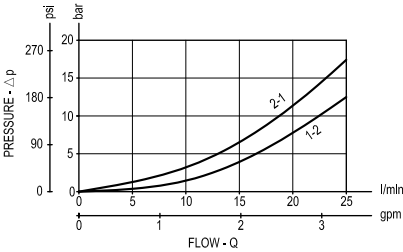
Performance graphs

Performance limits



version 31

Characteristic curves



Ordering code

OD.11

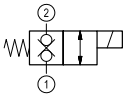
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
Solenoid operated valves
poppet 2-way double lock
normally closed




= 31

Common cavity: CA-08A-2N

standard type

6A = 

Push style manual override

6B = 

Type	Material number
OD1131186A0000	R934003624
OD1131186B0000	R934003625

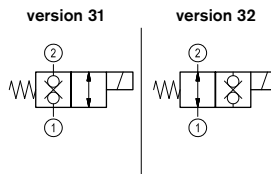
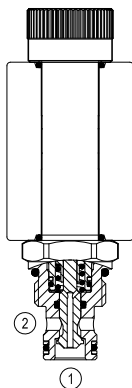
Type	Material number

Solenoid operated valves direct acting poppet 2-way double lock

Special cavity, CA-08F-2N

VEDT-08F-A-16

OD.11 - X - 40 - Y - 00



4

General

Weight	kg (lbs)	0.22 (0.48)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W -30 to 80 (-22 to 176) - coil 26W

Hydraulic

Max. operating pressure	bar (psi)	250 (3600)
Max. flow	l/min. (gpm)	25 (7)
Max. internal leakage	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Response time	ms.	40-60 at nominal flow (oil at 46 cSt)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	34-41 (25-30)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Special cavity		CA-08F-2N
Seal kit	code material no.	RG40E201053010 R934003587
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18350-50

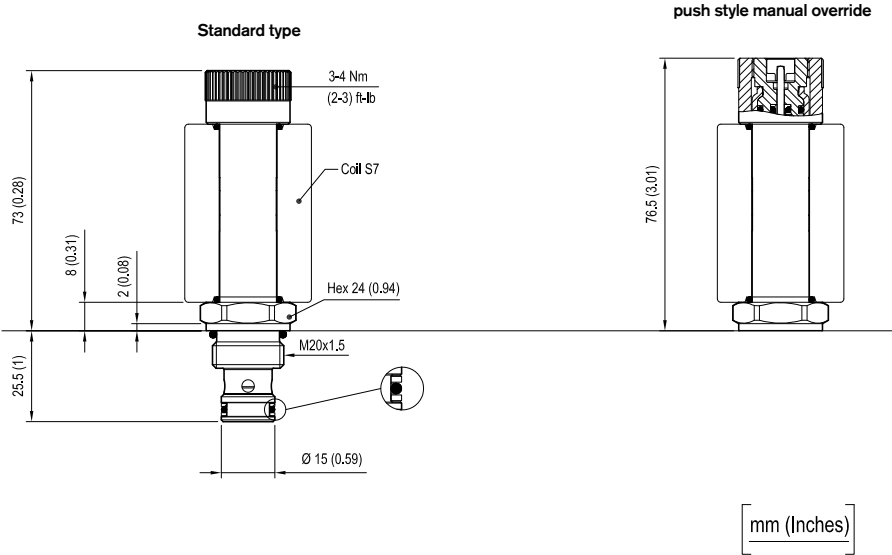
Electrical

Type of voltage		DC voltage
Coil type		S7
Supply voltage		See data sheet RE 18325-90
Power consumption	W	30 or 26
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE 18325-90
Nominal voltage	coil 26W	-15% +10%
Nominal voltage	coil 30W	-10% +10%

Note: Coils must be ordered separately.

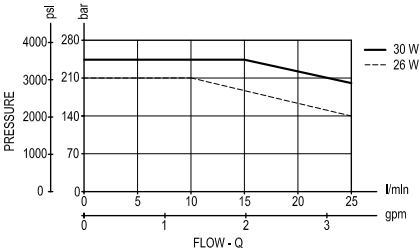
Dimensions

Solenoid operated valves poppet 2-way double lock - Special cavity



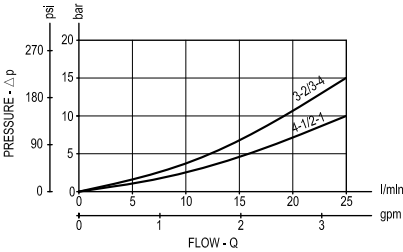
Performance graphs

Performance limits

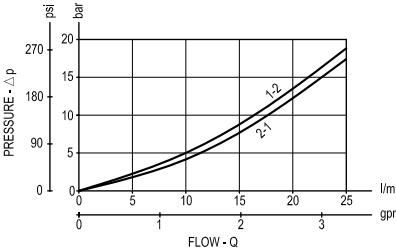
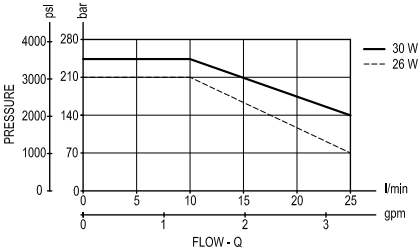


version 31 (NC)

Characteristic curves



version 32 (NA)



Ordering code

OD.11

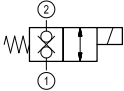
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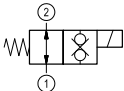
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Solenoid operated valves poppet
2-way double lock normally
closed and normally open




= 31




= 32

standard type

6A = 

Push style manual override

6B = 

Special cavity: CA-08F-2N

Type	Material number
OD1131406A0000	R934003630
OD1131406B0000	R934003631
OD1132406A0000	R934003628
OD1132406B0000	R934003629

Type	Material number

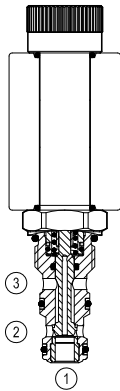
Solenoid operated valves direct acting poppet 3-way 2-position

Common cavity, Size 08

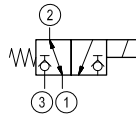


VEDT-08A-32

OD.13.01.51 - Y - 00



Version 01



General

Weight	kg (lbs)	0.24 (0.53)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W -30 to 80 (-22 to 176) - coil 26W

Hydraulic

Max. operating pressure	bar (psi)	250 (3600)
Max. flow	l/min. (gpm)	15 (4)
Max. internal leakage (*)	drops/min.	20
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Response time	ms.	40-60 at nominal flow (oil at 46 cSt)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Installation torque	Nm (ft-lbs)	34-41 (25-30)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-3N see RE 18325-70
Seal kit	code material no.	RG08A3010530100 R901101723
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18350-50

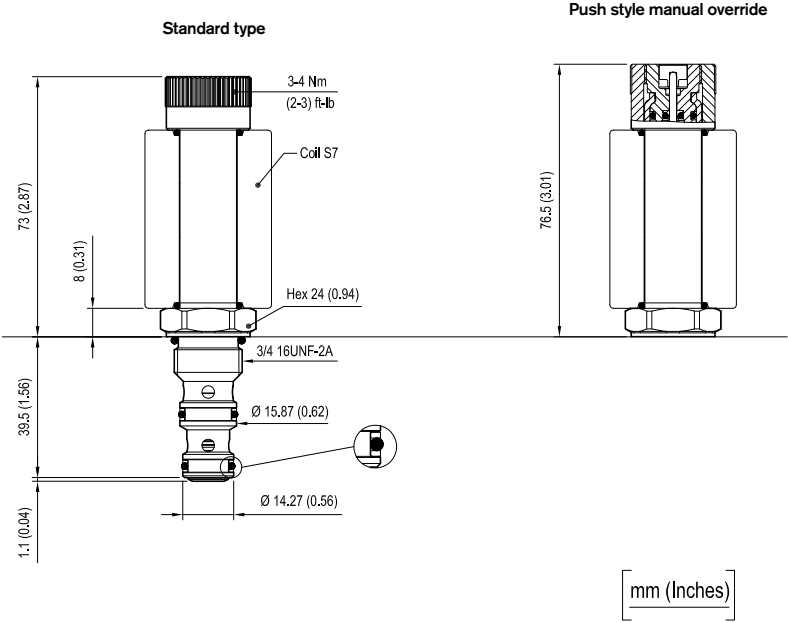
Electrical

Type of voltage		DC voltage
Coil type		S7
Supply voltage		See data sheet RE 18325-90
Power consumption	W	30 or 26
Duty cycle coil	%	See performance graphs
Type of protection		See data sheet RE 18325-90
Nominal voltage	coil 26W	-10% +15%
Nominal voltage	coil 30W	-10% +10%

Note: Coils must be ordered separately.

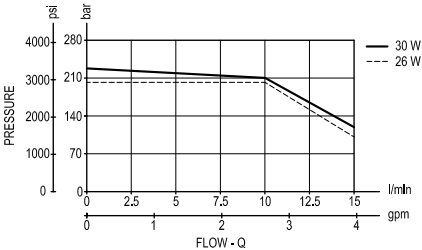
Dimensions

Solenoid operated valves poppet 3-way 2-position



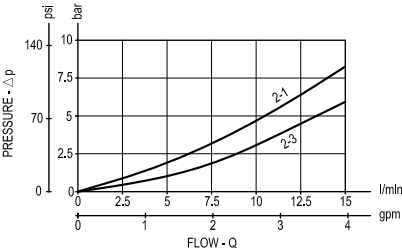
Performance graphs

Performance limits



version 01

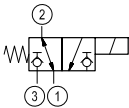
Characteristic curves



Ordering code

OD.13	01	51	*	00
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Solenoid operated valves
poppet 3-way 2-position



Common cavity: CA-08A-3N

standard type

6A =



Push style manual override

6B =



Type	Material number
OD1301516A0000	R934003666
OD1301516B0000	R934003667

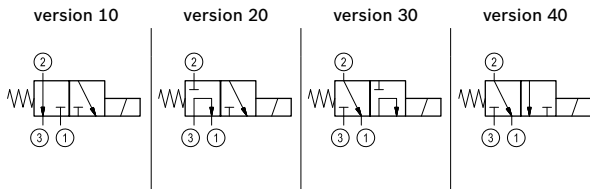
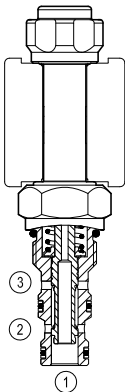
Type	Material number

Solenoid operated valves direct acting spool 3-way 2-position

Common cavity, Size 08

VEDS-08A-32

OD.13 - X - 51 - Y - 00



4

General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 20W -30 to 80 (-22 to 176) - coil 17W

Hydraulic

Max. operating pressure port 2-3	bar (psi)	315 (4568)
Max. operating pressure port 1	bar (psi)	210 (3000)
Max. flow	l/min. (gpm)	20 (5)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	90 (5.5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 34-41 (25-30)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-3N see RE 18325-70

Seal kit code RG08A301053010 material no. R901101723

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE 18325-90
Power consumption	W 20 or 17
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90

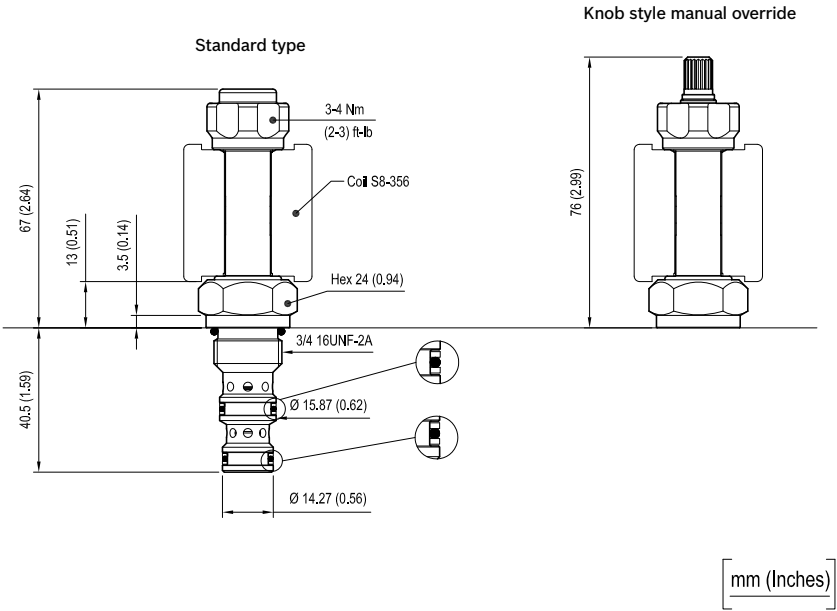
Nominal voltage coil 20W -15% +10%

Nominal voltage coil 17W -15% +15%

Note: Coils must be ordered separately.

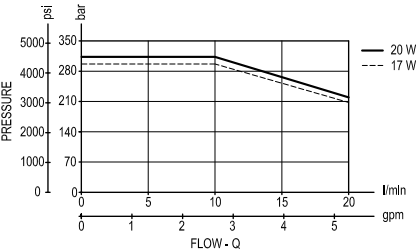
Dimensions

Solenoid operated valve, spool 3-way 2-position



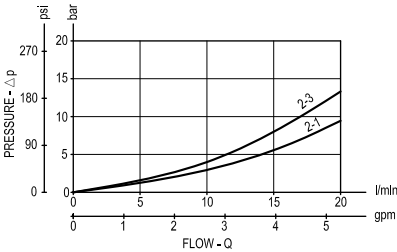
Performance graph

Performance limits

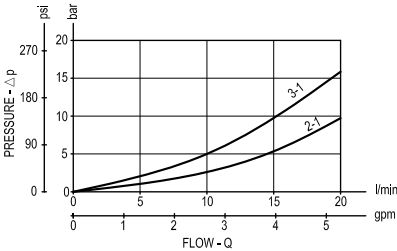
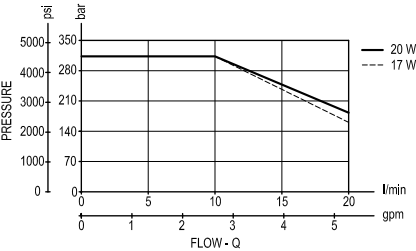


Version 10

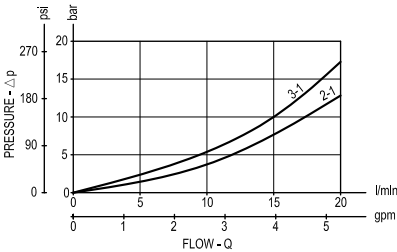
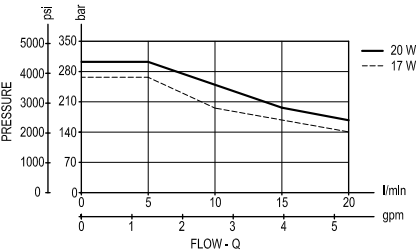
Characteristic curves



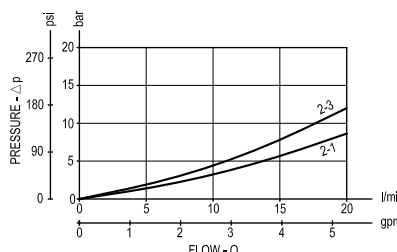
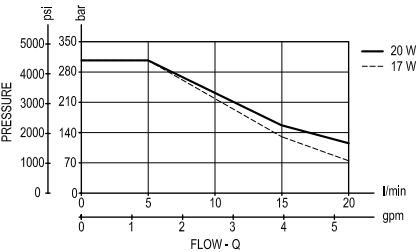
Version 20



Version 30



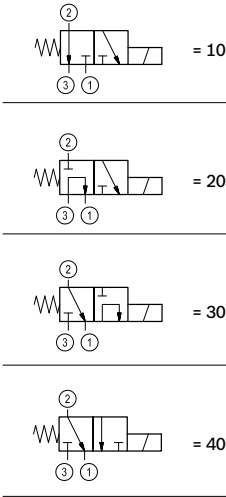
Version 40



Ordering code

OD.13	*	51	*	00
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Solenoid operated valves
spool 3-way 2-position



standard type

1A =



knob style manual override

1B =



Common cavity: CA-08A-3N

Type	Material number
OD1310511A0000	R934003541
OD1320511A0000	R934003542
OD1330511A0000	R934003543
OD1340511A0000	R934003544
OD1310511B0000	R934003545
OD1320511B0000	R934003546
OD1330511B0000	R934003547
OD1340511B0000	R934003548

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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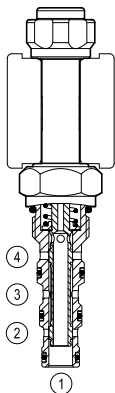
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Solenoid operated valves direct acting spool 4-way 2-position

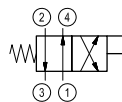
Common cavity, Size 08

VEDS-08A-42

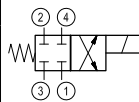
OD.14 - X - 58 - Y - 00



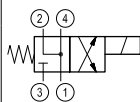
version 10



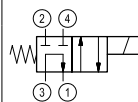
version 20



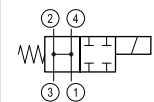
version 50



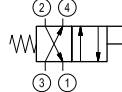
version 60



version 70



version 11



General

Weight	kg (lbs)	0.14 (0.31)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 20W -30 to 80 (-22 to 176) - coil 17W

Hydraulic

Max. operating pressure port 2-3-4	bar (psi)	315 (4568)
Max. operating pressure port 1	bar (psi)	210 (3000)
Max. flow	l/min. (gpm)	16 (4)
Max. internal leakage (*)	cm³/min. (cu.in/min.)	90 (5.5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 34-41 (25-30)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-4N see RE 18325-70

Seal kit code RG08A4010530100 material no. R930005582

Seal kit coil code RG12A1PNBR7010 material no. R934003958

Other technical data See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

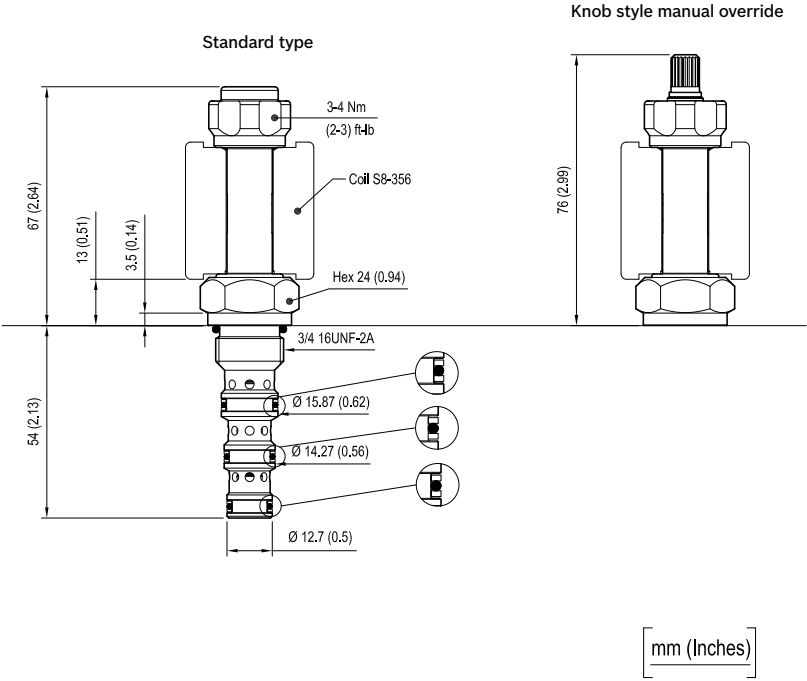
Electrical

Type of voltage	DC voltage
Coil type	S8-356
Supply voltage	See data sheet RE 18325-90
Power consumption	W 20 or 17
Duty cycle coil	% See performance graphs
Type of protection	See data sheet RE 18325-90
Nominal voltage coil 20W	-15% +10%
Nominal voltage coil 17W	-15% +15%

Note: Coils must be ordered separately.

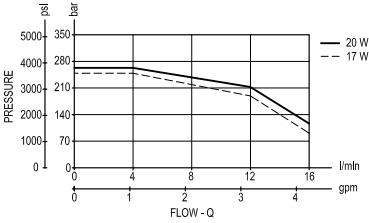
Dimensions

Solenoid operated valve, spool 4-way 2-position

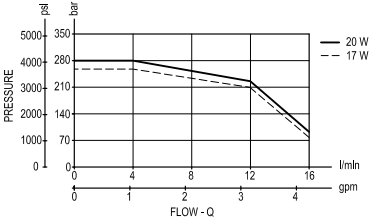


Performance graph

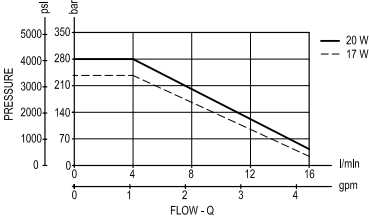
Performance limits



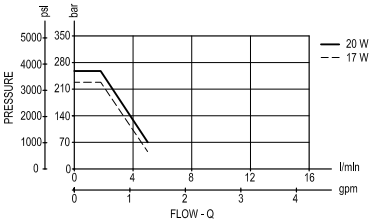
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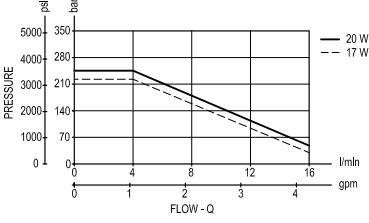
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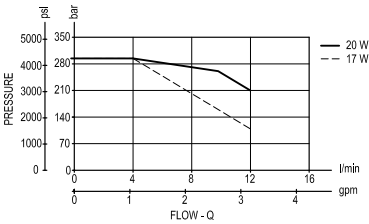
version 50



version 60

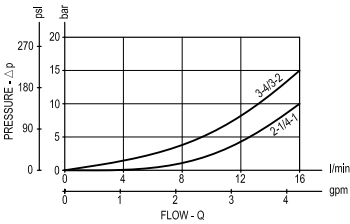
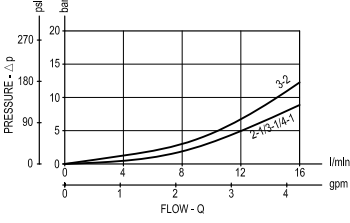
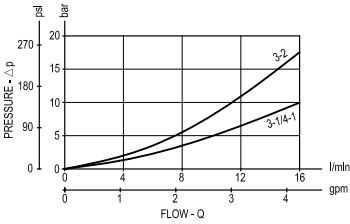
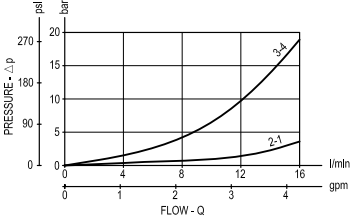
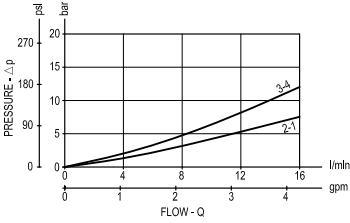
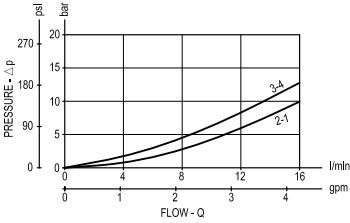


version 70



version 11

Characteristic curves



Ordering code

OD.14

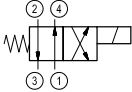
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58

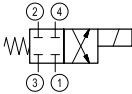
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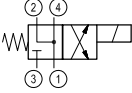
Solenoid operated valves
spool 4-way 2 position



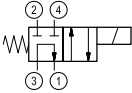
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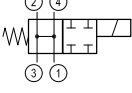
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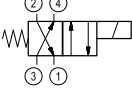
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


= 11

standard type

1A = 

knob style manual override

1B = 

Common cavity: CA-08A-4N

Type	Material number
OD1410581A0000	R934003530
OD1420581A0000	R934003531
OD1450581A0000	R934003532
OD1460581A0000	R934003533
OD1470581A0000	R934003534
OD1410581B0000	R934003535
OD1420581B0000	R934003536
OD1450581B0000	R934003537
OD1460581B0000	R934003538

Type	Material number
OD1470581B0000	R934003539
OD1411581A0000	R934003638

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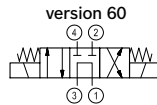
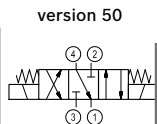
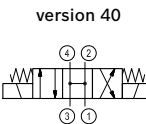
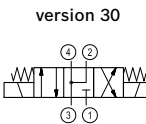
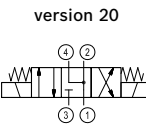
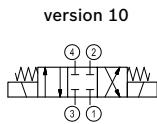
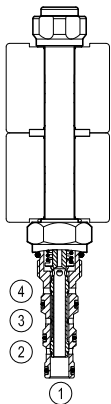
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Subject to change.

Solenoid operated valves direct acting spool 4-way 3-position

Common cavity, Size 08

VEDS-08A-43

OD.14 - X - 58.2A.00



General

Weight	kg (lbs)	0.13 (0.29)
Installation orientation	Optional	
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 20W -30 to 80 (-22 to 176) - coil 17W

Hydraulic

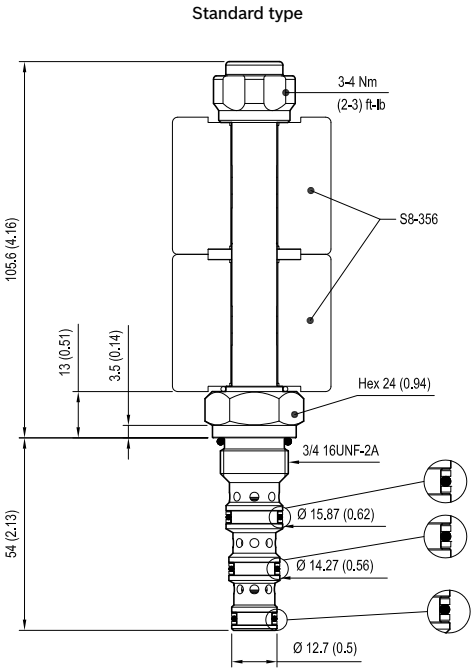
Max. operating pressure port 2-3-4	bar (psi)	315 (4568) (see performance graph)
Max. operating pressure port 1	bar (psi)	140 (2000)
Flow range	l/min. (gpm)	20 (5)
Max. internal leakage (*)	cm³/min. (cu.in/min.)	90 (5.5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)	
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Cavity	CA-08A-4N see RE 18325-70	
Seal kit	code material no.	RG08A4010530100 R930005582
Seal kit coil	code material no.	RG12A2PNBR7010 R934003960
Other technical data	See data sheet RE 18350-50	
(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)		

Electrical

Type of voltage	DC voltage	
Coil type	S8-356	
Supply voltage	See data sheet RE 18325-90	
Power consumption	W	20 or 17
Duty cycle coil	%	See performance graphs
Type of protection	See data sheet RE 18325-90	
Nominal voltage	coil 20W	-15% +10%
Nominal voltage	coil 17W	-15% +15%
Note: Coils must be ordered separately.		

Dimensions

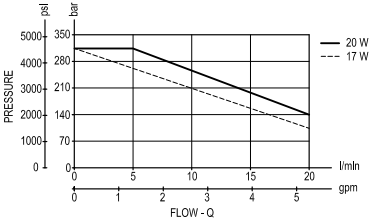
Solenoid operated valve, spool 4-way 3-position



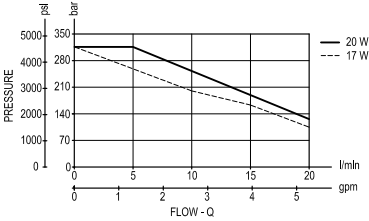
mm (Inches)

Performance graphs

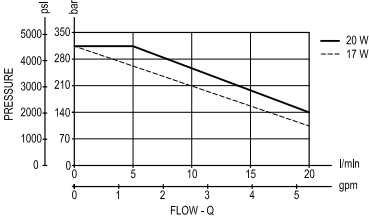
Performance limits



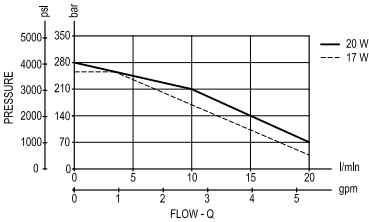
version 10



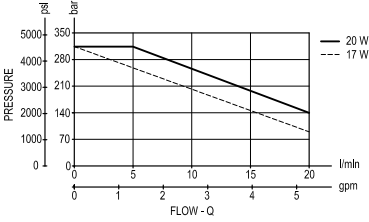
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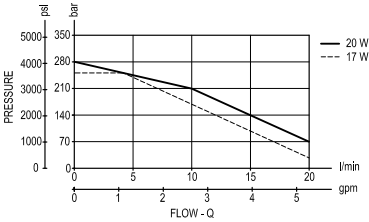
version 30



version 40

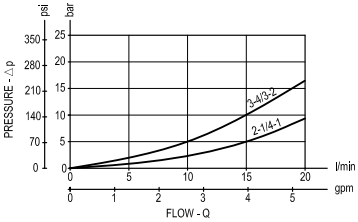
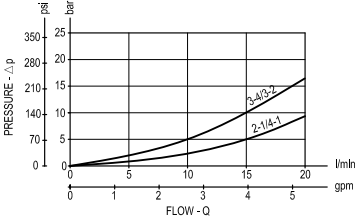
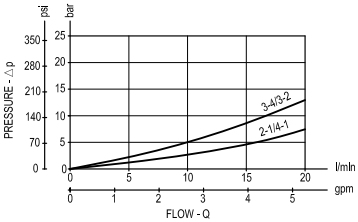
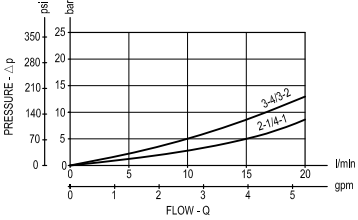
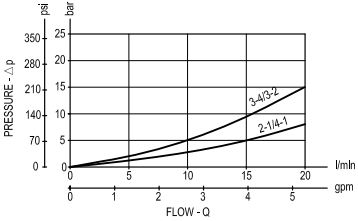
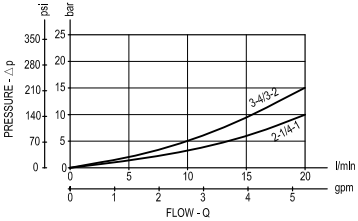


version 50



version 60

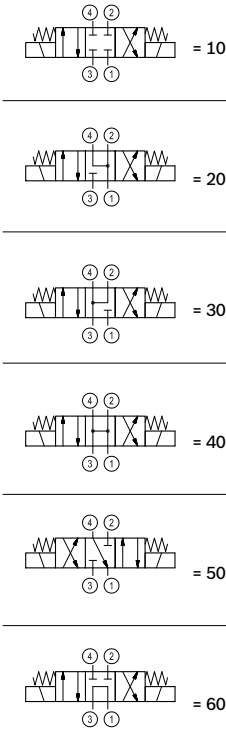
Characteristic curves



Ordering code

OD.14	*	58	2A	00
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Solenoid operated valves
spool 4-way 3 position



standard type



Common cavity: CA-08A-4N

Type	Material number
OD1410582A0000	R934003504
OD1420582A0000	R934003505
OD1430582A0000	R934003506
OD1440582A0000	R934003509
OD1450582A0000	R934003507
OD1460582A0000	R934003508

Type	Material number

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www.boschrexroth.com

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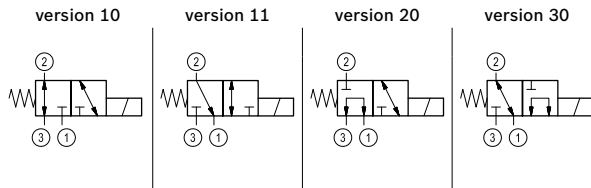
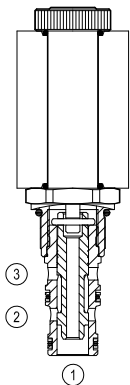
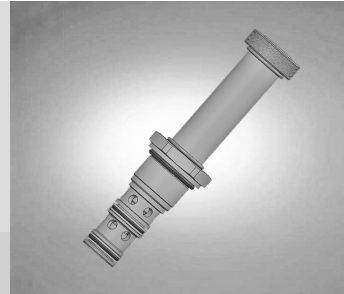
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Subject to change.

Solenoid operated valves direct acting spool 3-way 2-position

Common cavity, Size 10

VED-10A-32

OD.13 - X - 77 - Y - 00



4

General

Weight	kg (lbs)	0.22 (0.49)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W

Hydraulic

Max. operating pressure port 2-3	bar (psi)	280 (4000)
Max. operating pressure port 1	bar (psi)	210 (3000)
Max. flow	l/min. (gpm)	20 (6)
Max. internal leakage (*)	cm³/min. (cu.in./min.)	80 (5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-3N see RE 18325-70
Seal kit	code material no.	RG10A3010530100 R930000990
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data		See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

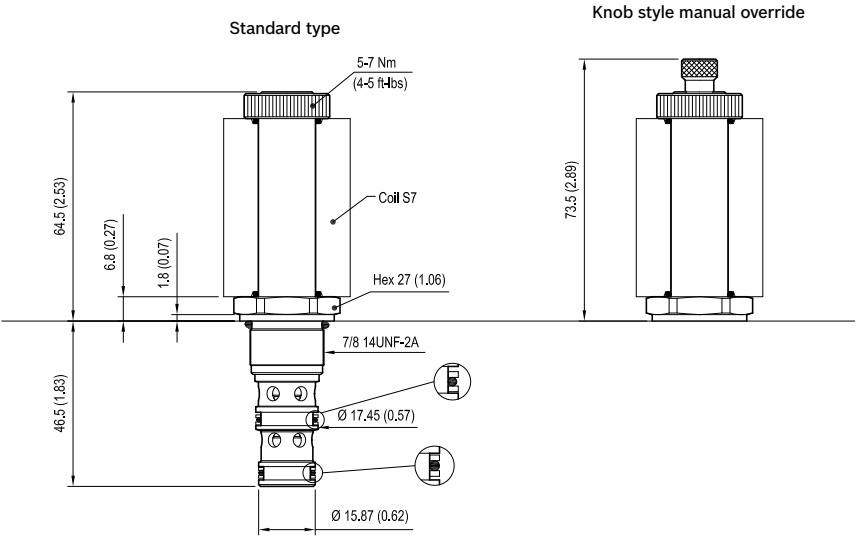
Electrical

Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE 18325-90
Power consumption	W 30
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90
Nominal voltage	coil 30W/-10% + 10%

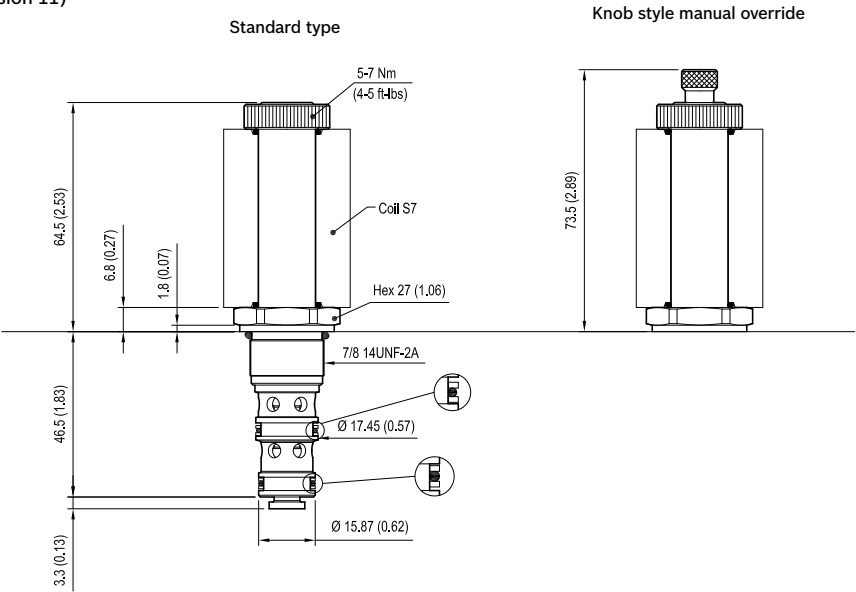
Note: Coils must be ordered separately.

Dimensions

Solenoid operated valve, spool 3-way 2-position



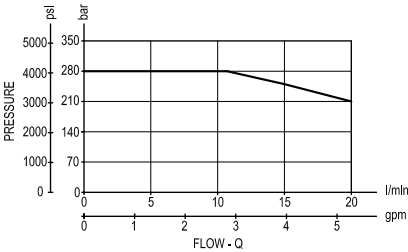
(only version 11)



[mm (Inches)]

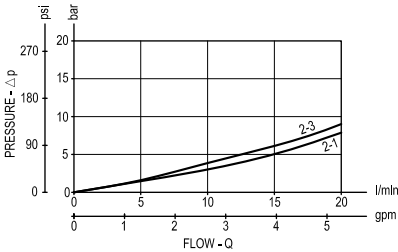
Performance graphs

Performance limits
(Hot coil at nominal voltage)

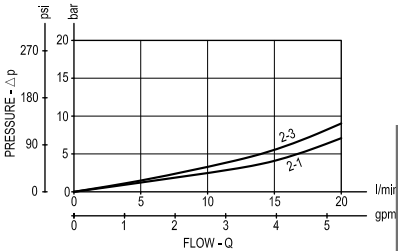
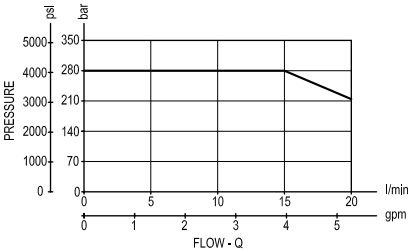


Version 10

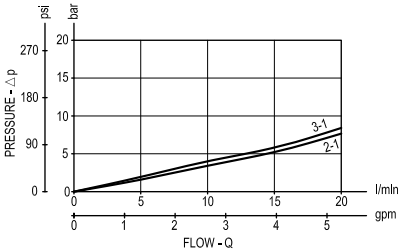
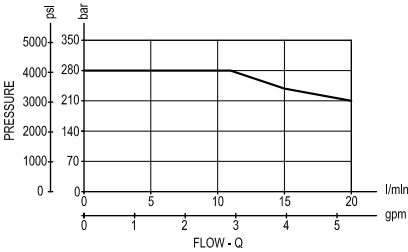
Characteristic curves



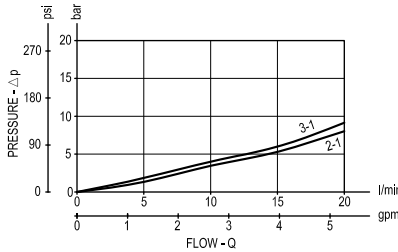
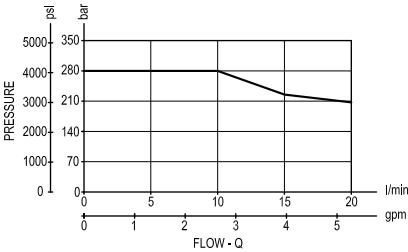
Version 11



Version 20



Version 30



Ordering code

OD.13

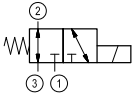
*

77

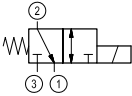
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00

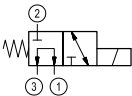
Solenoid operated valves
spool 4-way 2 position



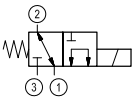
= 10



= 11




= 20




= 30

standard type

70 = 

Knob style manual override

71 = 

Common cavity: CA-10A-3N

Type	Material number
OD131077700000	R901113689
OD131077710000	R901113687
OD131177700000	R901125116
OD131177710000	R901126890
OD132077700000	R901113690
OD132077710000	R901113692
OD133077700000	R901115704
OD133077710000	R901126898

Type	Material number

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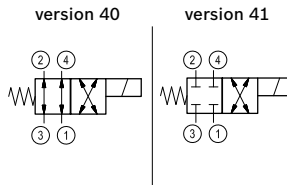
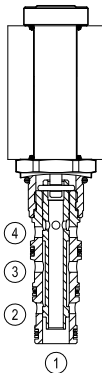
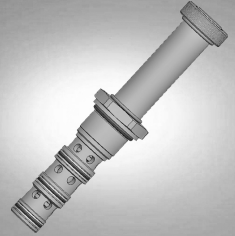
Subject to change.

Solenoid operated valves direct acting spool 4-way 2-position

Common cavity, Size 10

VED-10A-42

OD.14 - 4W - 78 - Y - 00



General

Weight	kg (lbs)	0.22 (0.48)
Installation orientation	Optional	
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W

Hydraulic

Max. operating pressure port 2-3-4	bar (psi)	280 (4000)
Max. operating pressure port 1		210 (3000)
Max. flow	l/min. (gpm)	20 (6)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	80 (5)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)	
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Cavity	CA-10A-4N see RE 18325-70	
Seal kit	code material no.	RG10A4010530100 R901111373
Seal kit coil	code material no.	RG16A1PMVQ0010 R934003962
Other technical data	See data sheet RE 18350-50	

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

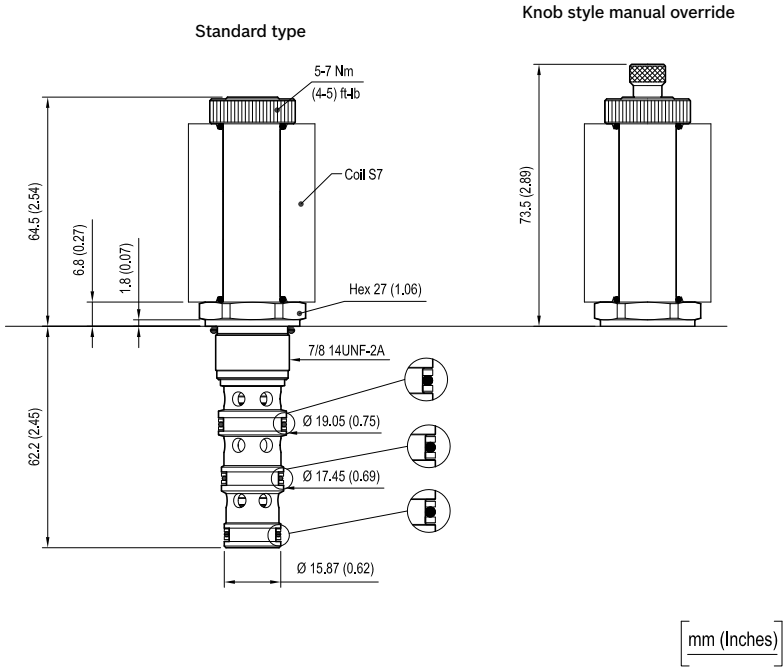
Electrical

Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE 18325-90
Power consumption	W 30
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90
Nominal voltage	coil 30W -10% + 10%

Note: Coils must be ordered separately.

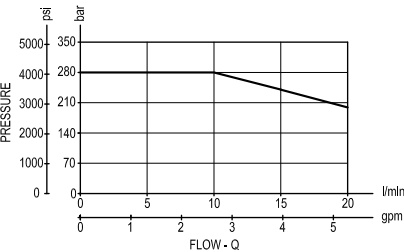
Dimensions

Solenoid operated valve, spool 4-way 2-position



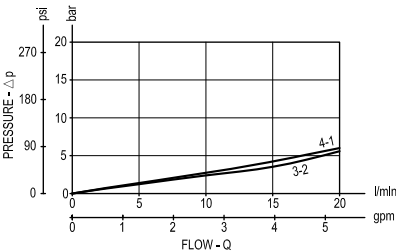
Performance graphs

Performance limits
(Hot coil at nominal voltage)

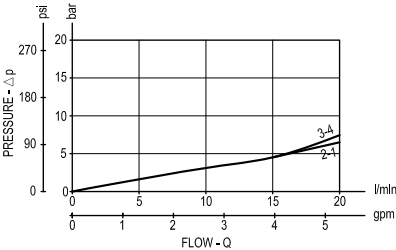
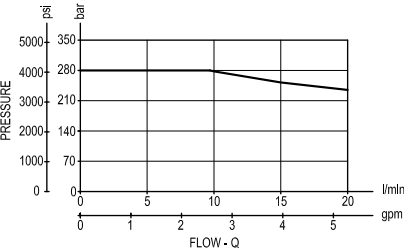


Version 40

Characteristic curves



Version 41



Ordering code

OD.14

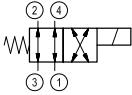
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78

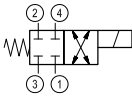
*

00

Solenoid operated valves
spool 4-way 2 position




= 40




= 41

standard type

70 = 

Knob style manual override

71 = 

Common cavity: CA-10A-4N

Type	Material number
OD144078700000	R901113695
OD144078710000	R901113699
OD144178700000	R901126906

Type	Material number

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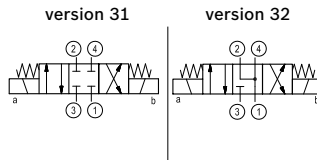
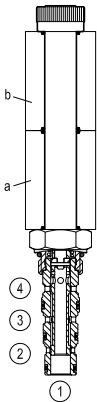
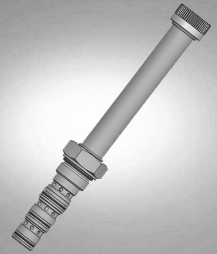
Subject to change.

Solenoid operated valves direct acting spool 4-way 3-position

Common cavity, Size 10

VED-10A-43

OD.14 - 3W - 78 - Y - 00



General

Weight	kg (lbs)	0.27 (0.6)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140) - coil 30W

Hydraulic

Max. operating pressure port 2-3-4	bar (psi)	280 (4000)
Max. operating pressure port 1		210 (3000)
Max. flow	l/min. (gpm)	20 (6)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	120 (7)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 44-56 (33-41)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-10A-4N see RE 18325-70

Seal kit code RG10A4010530100 material no. R901111373

Seal kit coil code RG16A2PMVQ0010 material no. R934003963

Other technical data See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

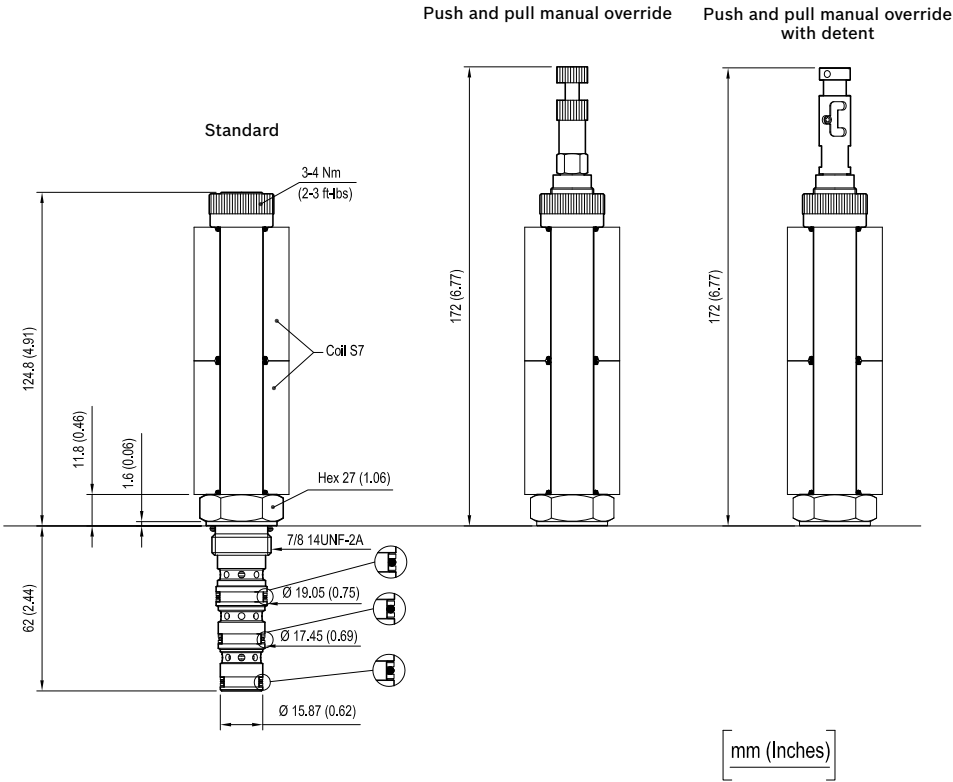
Electrical

Type of voltage	DC voltage
Coil type	S7
Supply voltage	See data sheet RE 18325-90
Power consumption	W/30
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90
Nominal voltage coil 30W/-10% + 10%	

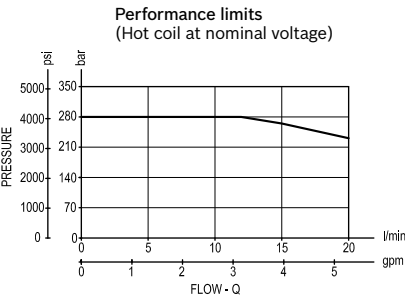
Note: Coils must be ordered separately.

Dimensions

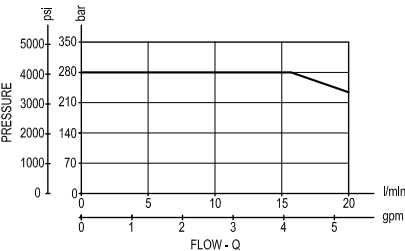
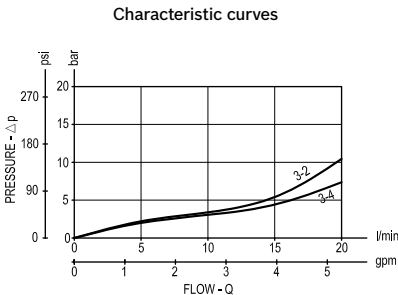
Solenoid operated valves spool 4-way 3-position



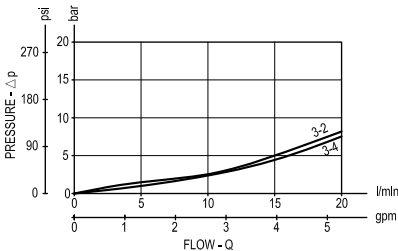
Performance graphs



Version 31



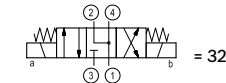
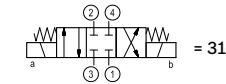
Version 32



Ordering code

OD.14	*	78	*	00
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Solenoid operated valves
spool 4-way 3 position

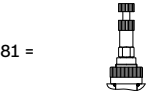


Common cavity: CA-10A-4N

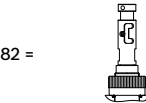
standard type



push and pull manual override



push and pull manual override
with detent



Type	Material number
OD143178800000	R901113701
OD143178810000	R901113703
OD143178820000	R934000642
OD143278800000	R901113706
OD143278810000	R901126908
OD143278820000	R934000651

Type	Material number

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Subject to change.

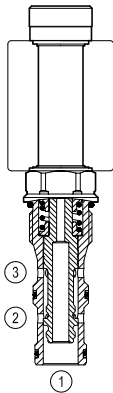
Solenoid operated valves direct acting spool 3-way 2-position

Common cavity, Size 12

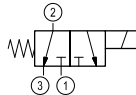


VEDS-12A-32

OD.13 - X - 12 - Y - 00



version 10



4

General

Weight	kg (lbs)	0.39 (0.86)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	315 (4500)
Max. operating pressure port 1	bar (psi)	210 (3000)
Max. flow	l/min.(gpm)	60 (16)
Max. internal leakage (*)	cm³/min. (cu.in./min.)	180 (11)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 81-87 (60-64)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-12A-3N see RE 18325-70

Seal kit code RG12A3010520100 material no. R930000941

Seal kit coil code RG19A1PNBR7010 material no. R934003964

Other technical data See data sheet RE 18350-50

(*) Measured at 210 bar (3000 psi) (oil at 46 cSt)

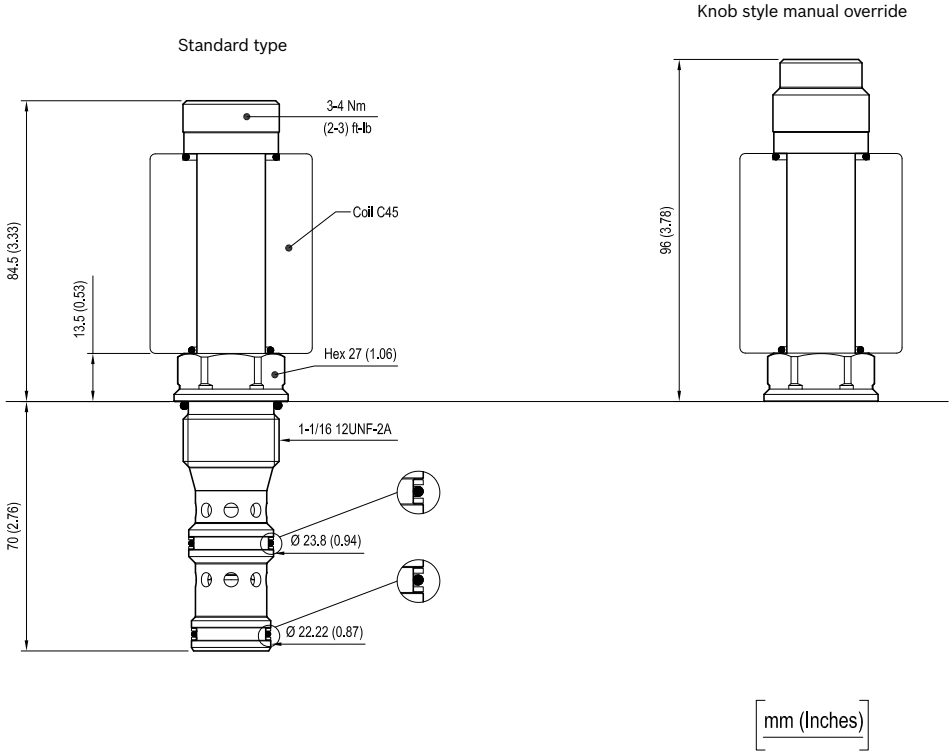
Electrical

Type of voltage	DC voltage
Coil type	C45
Supply voltage	See data sheet RE 18325-90
Power consumption	W 33
Duty cycle coil	% 100 see RE 18325-90
Type of protection	See data sheet RE 18325-90
Nominal voltage coil 33W	-10%+10%

Note: Coils must be ordered separately.

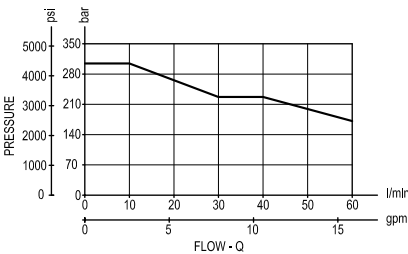
Dimensions

Solenoid operated valves direct acting spool 3-way 2-position

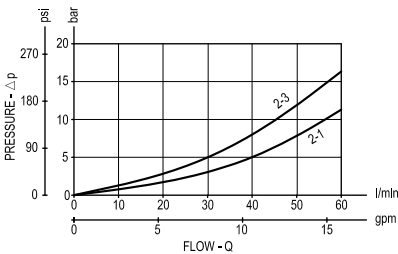


Performance graphs

Performance limits



Characteristic curves



Ordering code

OD.13

*

12

*

00

Solenoid operated valves
spool 3-way 2-position

= 10

Common cavity: CA-12A-3N

Standard type

1A =

Knob style manual override

1B =

Type	Material number
OD1310121A0000	R934003616
OD1310121B0000	R934003620

Type	Material number

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Subject to change.

Solenoid Cartridge Valves

Electro-proportional

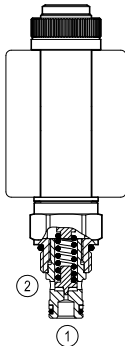
Designation	Description	Cavity	Code	Data sheet	Pages
Solenoid cartridge valves electro-proportional relief direct acting	VEP-5B-2S-D	Size 08	OD940118YZ	RE 18323-65	837
Solenoid cartridge valves electro-proportional relief pilot operated	VEP-5B-2S-10A-P	Size 10	OD940536YZ	RE 18323-66	841
Solenoid cartridge valves electro-proportional relief pilot operated	VEP-5B-2S-P	Special	OD940561YZ	RE 18323-67	845
Solenoid cartridge valves electro-proportional direct acting pressure reducing	VEP-5A-3R-06	Size 10	OD910177Y00	RE 18323-60	849
Solenoid cartridge valves electro-proportional pilot operated pressure reducing	VEP-5A-2R-06-P	Size 10	OD910677Y00	RE 18323-61	853
Solenoid cartridge valves electro-proportional 2 way double lock normally closed	VEP-5A-2T-06-NC	Size 08	OD953118Y00	RE 18323-68	857
Solenoid cartridge valves electro-proportional flow regulator not compensated	VEP-5A-2Q-09	Size 10	OD92X77YZ	RE 18323-63	861
Solenoid cartridge valves electro-proportional flow regulator not compensated	VEP-5A-2Q-14	Size 12	OD92X12Y00	RE 18323-62	865
Solenoid cartridge valves electro-proportional flow regulator not compensated	VEP-5A-2Q-09	Size 10	OD920277YZ	RE 18323-64	869
Solenoid cartridge valves electro-proportional poppet type flow regulator not compensated	VEPN-12A	Size 12	OD9506897200	RE 18323-69	873

Proportional valves direct acting relief

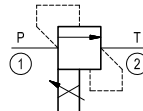
Common cavity, Size 08

VEP-5B-2S-D

OD.94.01.18 - Y - Z



Version 01



4

General

Weight	kg (lbs)	0.23 (0.51)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	See flow diagram
Max. internal leakage (*)	cm³/min. (cu.in./min.)	5 (0.3)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 39-51 (29-38)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-08A-2N see RE 18325-70

Seal kit code RG08A2010520100 material no. R901101437

Seal kit coil code RG19A1PNBR7010 material no. R934003964

Other technical data See data sheet RE 18325-90

(*) at 20% of pressure setting. Oil at 46 cSt

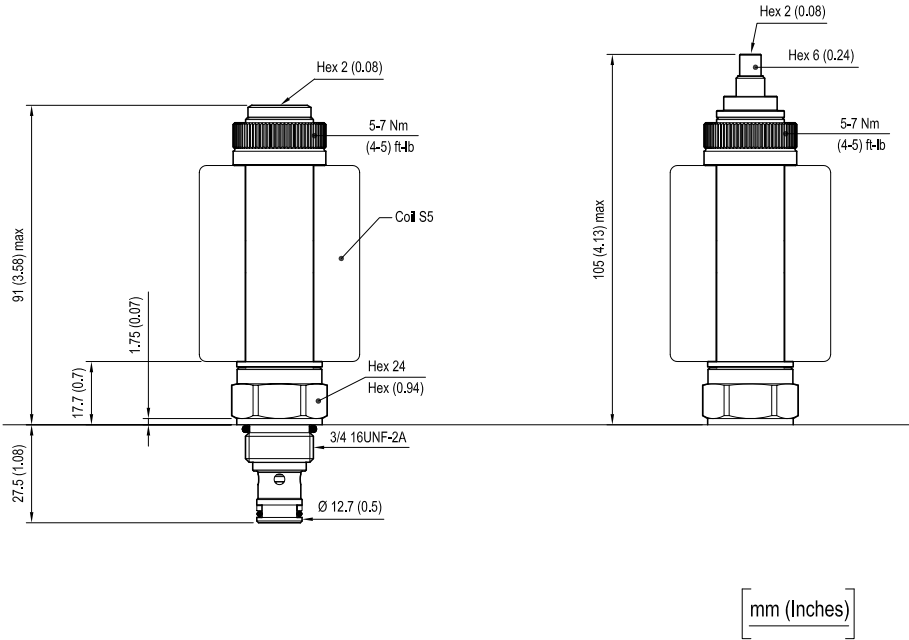
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

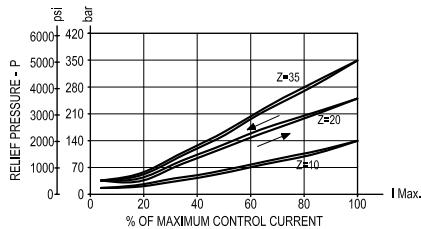
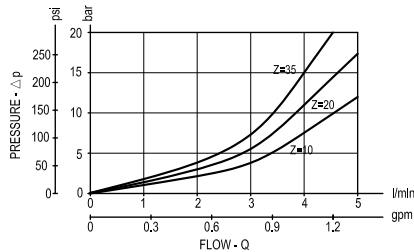
Note: Coils must be ordered separately.

Dimensions

Proportional valves direct acting relief



Performance graphs



	I	P bar (psi)	Coils
Z=10	I min: 0.2 A	15 (218)	12 DC
	I max: 1.5 A	140 (2030)	12 DC
Z=20	I min: 0.15 A	30 (435)	12 DC
	I max: 1.7 A	250 (3625)	12 DC
Z=30	I min: 0.2 A	30 (435)	12 DC
	I max: 1.7 A	350 (5075)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

Note (1): It is recommended to use coil 12 DC.

Note (2): It is recommended to bleed air carefully before operation.

Ordering code

OD.94

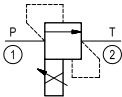
01

18

Y

Z

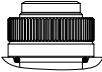
Proportional valves direct acting relief




Common cavity: CA-08A-2N

Operating range				
Pressure range bar (psi)	Voltage V	I Min. A (±10%)	I Max. A (±10%)	Internal orifice mm (Inch)
= 10 15-140 (220-2000)	12	0.25	1.8	2.5 (0.9)
= 20 30-250 (440-3600)	12	0.25	1.8	1.8 (0.7)
= 35 30-350 (440-5000)	12	0.25	1.8	1.5 (0.6)

standard type

03 = 

knob style manual override

04 = 

Type	Material number
OD940118031000	R934001530
OD940118032000	R934001531
OD940118033500	R934001532
OD940118041000	R934001533
OD940118042000	R934001534
OD940118043500	R934001535

Type	Material number

Bosch Rexroth Oil Control S.p.A.
Via Leonardo da Vinci 5
P.O. Box no. 5
41015 Nonantola – Modena, Italy
Tel. +39 059 887 611
Fax +39 059 547 848
cartridges@oilcontrol.com
www.boschrexroth.com

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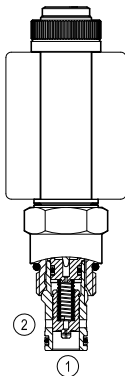
Subject to change.

Proportional valves pilot operated relief

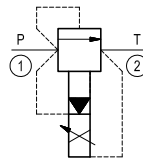
Common cavity, Size 10

VEP-5B-2S-10A-P

OD.94.05.36 - Y - Z



Version 05



General

Weight	kg (lbs)	0.3 (0.66)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	7-120 (2-32)
Max. internal leakage	cm³/min. (cu.in./min.)	200 (12)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-2N see Re 18325-70
Seal kit	code material no.	RG10A2010530100 R901111366
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18350-50
(*) at 20% of pressure setting. Oil at 46 cSt.		

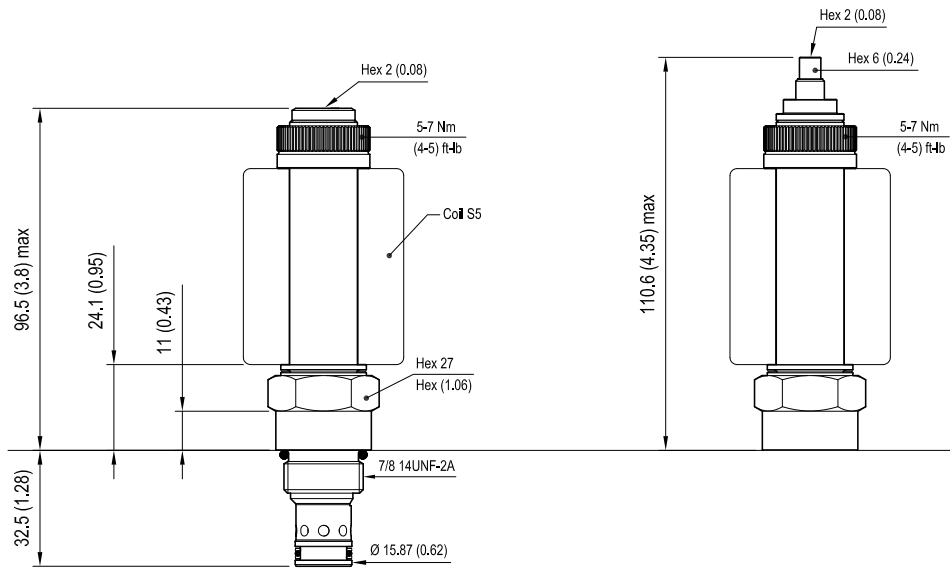
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

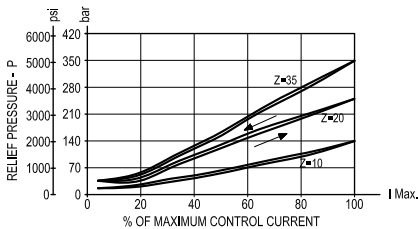
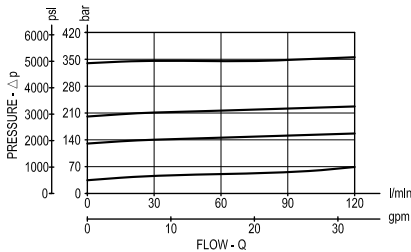
Dimensions

Proportional valves pilot operated relief



[mm (Inches)]

Performance graphs



	I	P bar (psi)	Coils
Z=10	I min: 0.2 A	15 (218)	12 DC
	I max: 1.5 A	140 (2030)	12 DC
Z=20	I min: 0.15 A	30 (435)	12 DC
	I max: 1.7 A	250 (3625)	12 DC
Z=35	I min: 0.2 A	30 (435)	12 DC
	I max: 1.7 A	350 (5075)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

Note (1): It is recommended to use coil 12 DC.

Note (2): It is recommended to bleed air carefully before operation.

Ordering code

OD.94	05	36	Y	Z
-------	----	----	---	---

Proportional valves pilot operated relief

Common cavity: CA-10A-2N

Operating range				
	Pressure range bar (psi)	Voltage V	I Min. A (±10%)	I Max. A (±10%)
= 10	15-140 (220-2000)	12	0.18	1.6
= 20	30-250 (440-3600)	12	0.13	1.5
= 35	30-350 (440-5000)	12	0.28	1.4

standard type

03 =

knob style manual override

04 =

Type	Material number
OD940536031000	R934001536
OD940536032000	R934001537
OD940536033500	R934001538
OD940536041000	R934001539
OD940536042000	R934001540
OD940536043500	R934003877

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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www.boschrexroth.com

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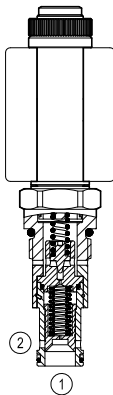
Subject to change.

Proportional valves pilot operated relief

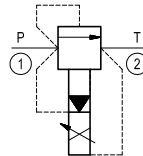
Special cavity, 065

VEP-5B-2S-P

OD.94.05.61 - Y - Z



Version 05



4

General

Weight	kg (lbs)	0.36 (0.79)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	350 (5000)
Flow range	l/min.(gpm)	8-150 (2-40)
Max. internal leakage (*)	cm³/min. (cu.in./min.)	180 (11)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 121-133 (90-99)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity 065 see RE 18325-75

Seal kit code RG0065010520100 material no. R930001958

Seal kit coil code RG19A1PNBR7010 material no. R934003964

Other technical data See data sheet RE 18325-90

(*) at 20% of pressure setting. Oil at 46 cSt.

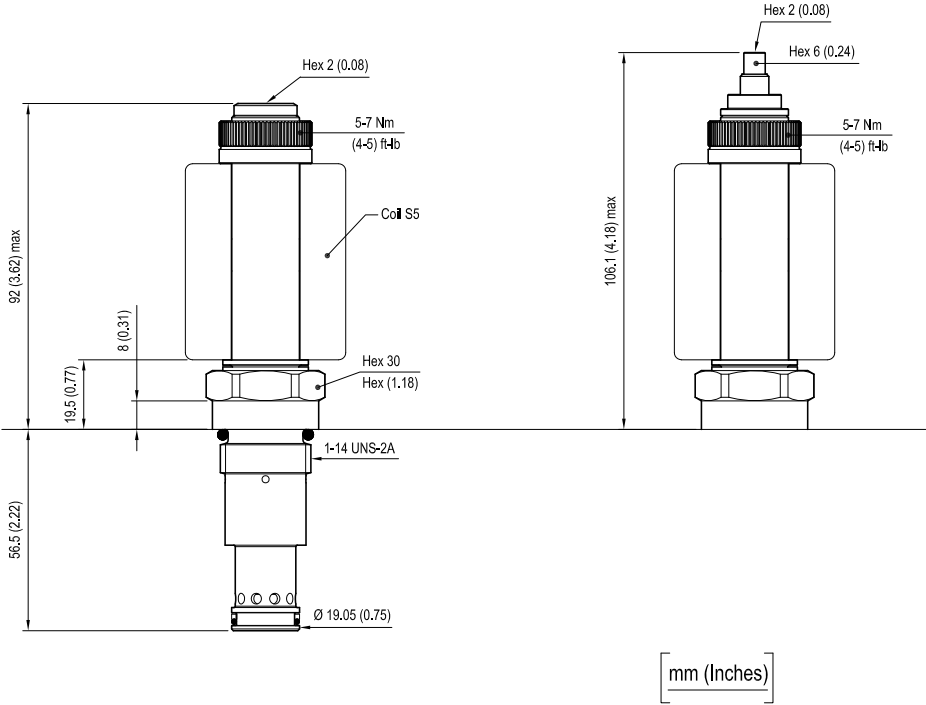
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	V 12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

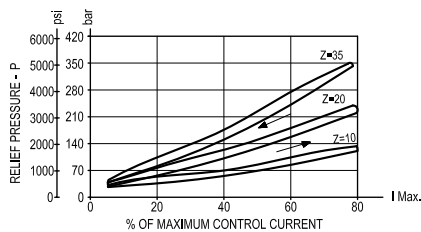
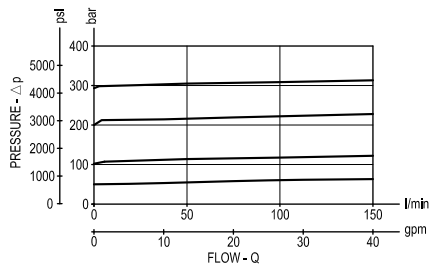
Note: Coils must be ordered separately.

Dimensions

Proportional valves pilot operated relief



Performance graphs

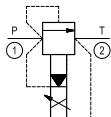


	I	P bar (psi)	Coils
Z=10	I min: 0.2 A	20 (290)	12 DC
	I max: 1.5 A	120 (1740)	12 DC
Z=20	I min: 0.15 A	20 (290)	12 DC
	I max: 1.7 A	220 (3190)	12 DC
Z=35	I min: 0.2 A	30 (435)	12 DC
	I max: 1.7 A	350 (5075)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

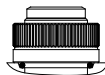
Note (1): It is recommended to use coil 12 DC.

Note (2): It is recommended to bleed air carefully before operation.

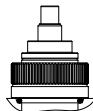
OD.94	05	61	Y	Z
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	Operating range			
	Pressure range bar (psi)	Voltage V	I Min. A (±10%)	I Max. A (±10%)
= 10	20-120 (290-1740)	12	0.2	1.5
= 20	20-220 (290-3190)	12	0.1	1.7
= 35	30-350 (440-5000)	12	0.2	1.7



03 =



04 =

Special cavity: 065

Type	Material number
OD940561031000	R934001541
OD940561032000	R934001542
OD940561033500	R934001543
OD940561041000	R934001544
OD940561042000	R934001545
OD940561043500	R934003850

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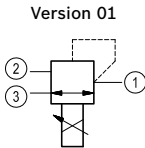
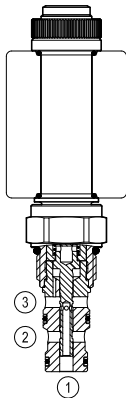
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Proportional valves direct acting
pressure reducing

Common cavity, Size 10

VEP-5A-3R-06

OD.91.01.77 - Y - 00



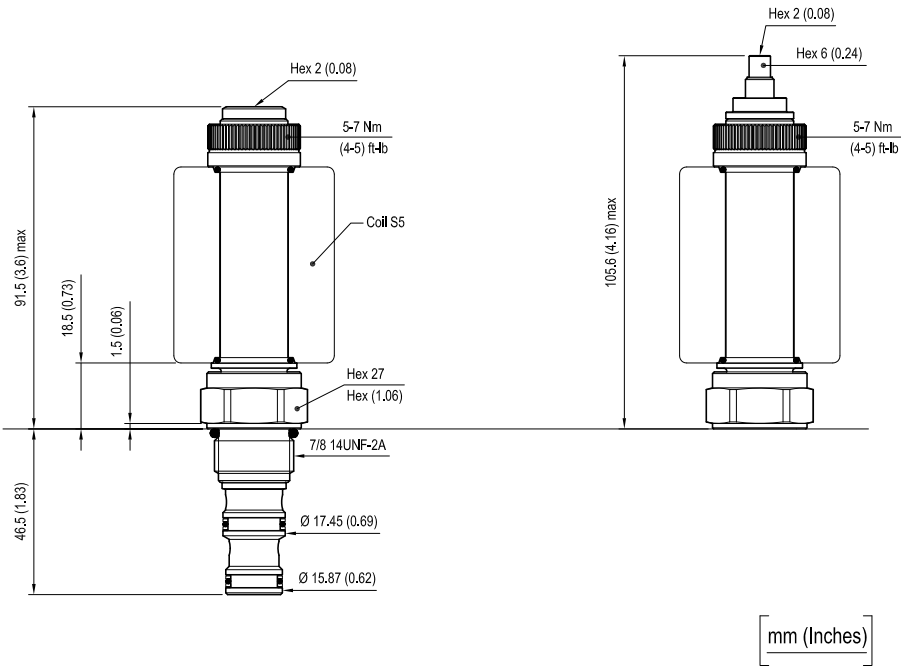
4

General		
Weight	kg (lbs)	0.3 (0.66)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)
Hydraulic		
Max. operating pressure	bar (psi)	210 (3000)
Max. flow	l/min.(gpm)	10 (3)
Max. internal leakage	cm³/min. (cu.in./min.)	12 (0.7)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-3N see RE 18325-70
Seal kit	code material no.	RG10A3010530100 R930000990
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

Electrical	
Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90
Note: Coils must be ordered separately.	

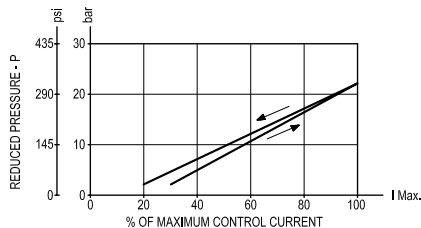
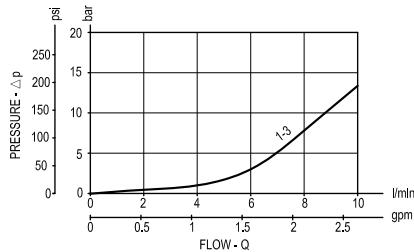
Dimensions

Proportional valves direct acting pressure reducing



Allowed back pressure at port 3 (T): 5 bar (73 psi)
max

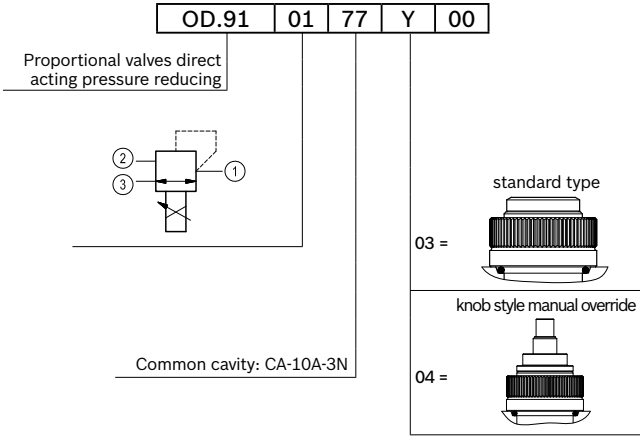
Performance graphs



	I	P bar (psi)	Coils
I min:	0.45 A	2 (29)	12 DC
I max:	2.0 A	22 (319)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

Note (1): It is recommended to use coil 12 DC.
Note (2): It is recommended to bleed air carefully before operation.

Ordering code

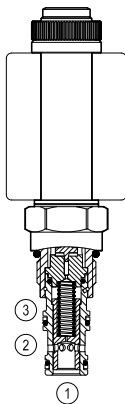


Proportional valves pilot operated pressure reducing

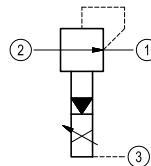
Common cavity, Size 10

VEP-5A-2R-06-P

OD.91.06.77 - Y - 00



Version 06



4

General

Weight	kg (lbs)	0.3 (0.66)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	250 (3600)
Flow range	l/min.(gpm)	2-60 (0.5-16)
Max. internal leakage	cm³/min. (cu.in./min.)	50 (3)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-10A-3N see RE 18325-70
Seal kit	code	RG10A3010520100
	material no.	R901111369
Seal kit coil	code	RG19A1PNBR7010
	material no.	R934003964
Other technical data		See data sheet RE 18325-90

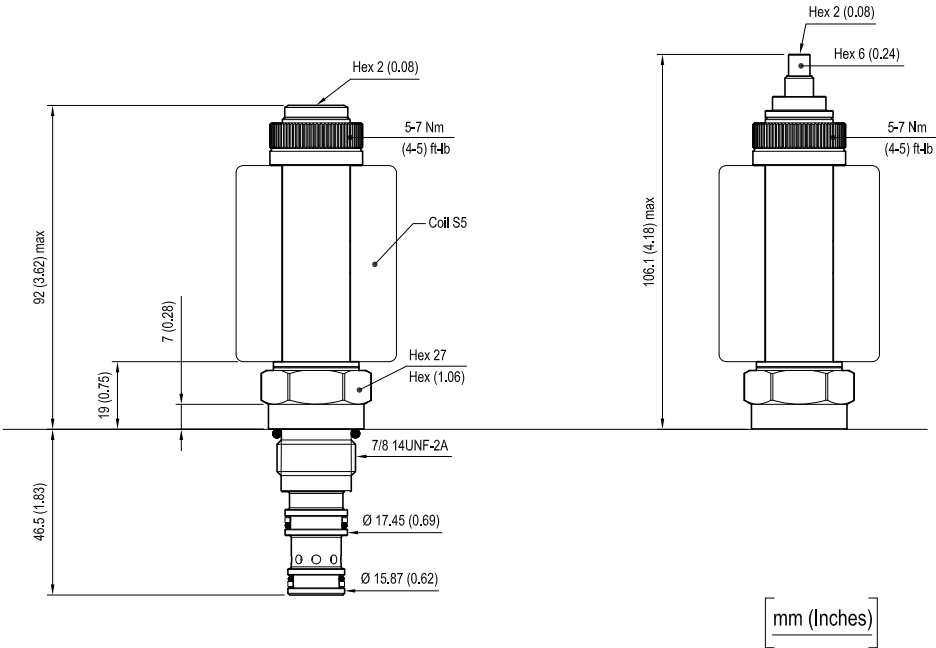
Electrical

Type of voltage	12 DC voltage
Coil type	S5
Supply voltage	See data sheet RE 18325-90
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

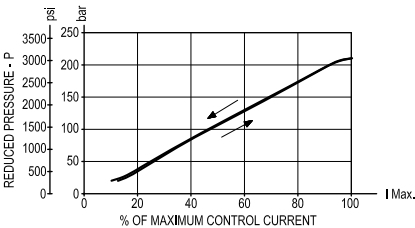
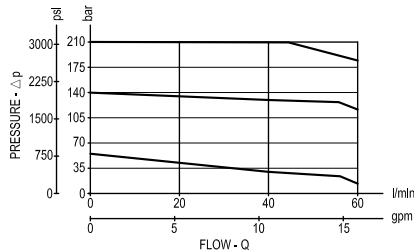
Dimensions

Proportional valves pilot operated pressure reducing



Allowed back pressure at port 3 (Y): 5 bar (73 psi)
max

Performance graphs



	I	P bar (psi)	Coils
I min:	0.1 A	15 (218)	12 DC
I max:	1.3 A	210 (3045)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

Note (1): It is recommended to use coil 12 DC.

Note (2): It is recommended to bleed air carefully before operation.

Ordering code

OD.91

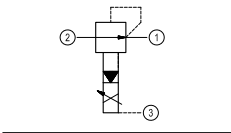
06

77

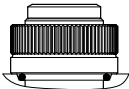
Y

00

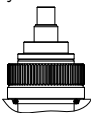
Proportional valves pilot operated pressure reducing



standard type

03 = 

knob style manual override

04 = 

Common cavity: CA-10A-3N

Type	Material number
OD910677030000	R901118933
OD910677040000	R901126868

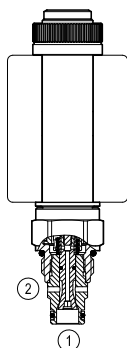
Type	Material number

Proportional valves 2-way double lock normally closed

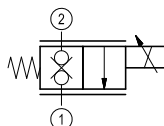
Common cavity, Size 08

VEP-5A-2T-06-NC

OD.95.31.18 - Y - 00



Version 31



4

General

Weight - Valve	kg (lbs)	0.25 (0.55)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

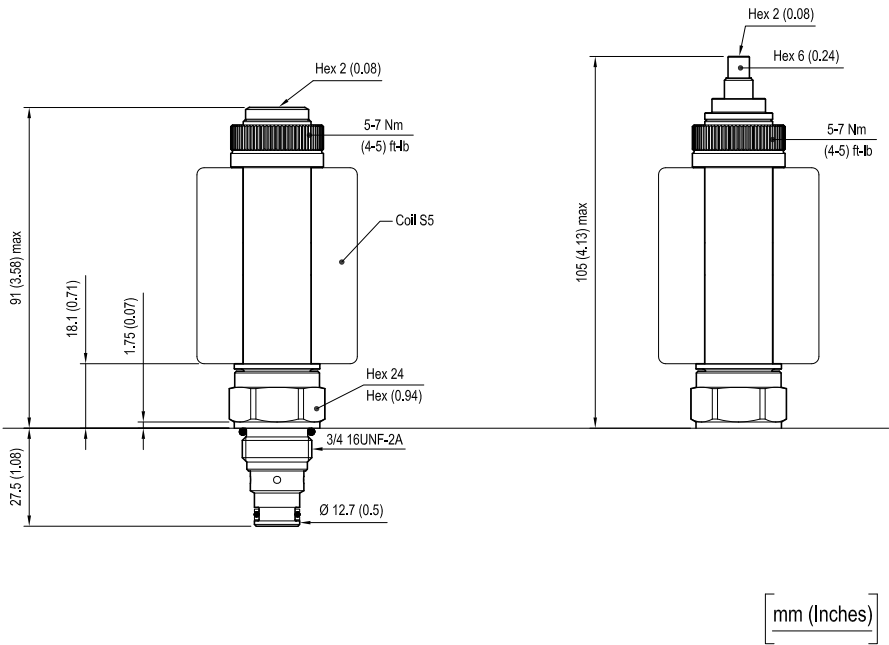
Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min. (gpm)	2-20 (0.5-5)
Max. internal leakage	cm³/min. (cu.in./min.)	1 (0.1)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	39-51 (29-38)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-08A-2N see RE 18325-70
Seal kit	code material no.	RG08A2010530100 R901101544
Seal kit coil	code material no.	RG19A1PNBR7010 R934003964
Other technical data		See data sheet RE 18325-90

Electrical

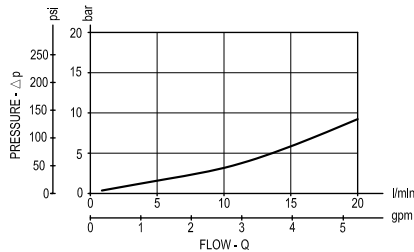
Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Dimensions

Proportional valves 2-way double lock normally closed



Performance graphs



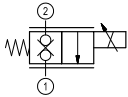
Flow regulation			
Pressure bar (psi)	Flow Q l/min (gpm)	I Min. A (±10%)	I Max. A (±10%)
15 (218)	19 (5)	0.8	1.4
100 (1450)	20 (5.3)	0.9	1.6
200 (2900)	20 (5.3)	0.95	2.1

Note: it is recommended to use coil 12 DC.

Ordering code

OD.95	31	18	Y	00
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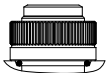
Proportional valves 2-way
double lock normally
closed



Common cavity: CA-08A-2N


standard type

03 =



knob style manual override

04 =



Type	Material number
OD953118030000	R901113761
OD953118040000	R901126864

Type	Material number

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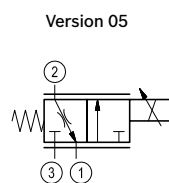
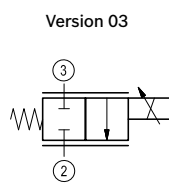
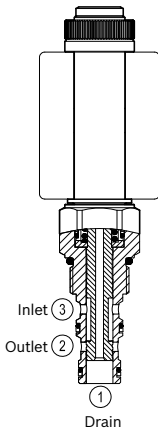
Subject to change.

Proportional valves not compensated flow regulator

Common cavity, Size 10

VEP-5A-2Q-09

OD.92 - X - 77 - Y - Z



Version 03: port 1 not used.

General

Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min.(gpm)	see flow diagram
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	100 (6)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm ² /s (cSt)	
Installation torque	Nm (ft-lbs)	44-56 (33-41)
Filtration	Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Cavity	CA-10A-3N see RE 18325-70	

Seal kit	code	RG10A3010520100
	material no.	R901111369
Seal kit coil	code	RG19A1PNBR7010
	material no.	R934003964

Other technical data See data sheet RE 18325-90

(*) Measure at 210 bar (3000 psi). Oil at 46 cSt.

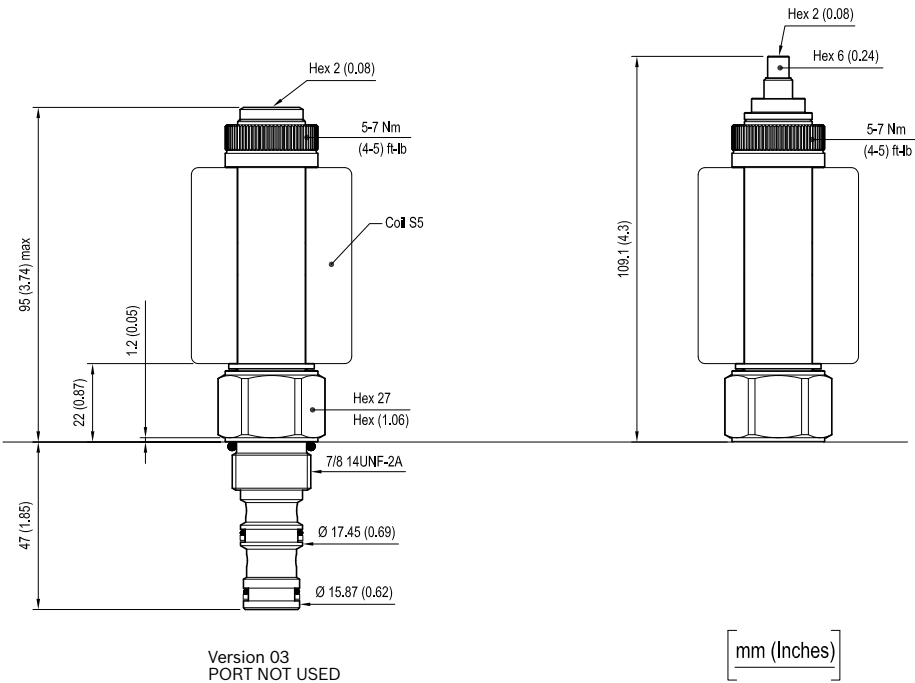
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

Note: Coils must be ordered separately.

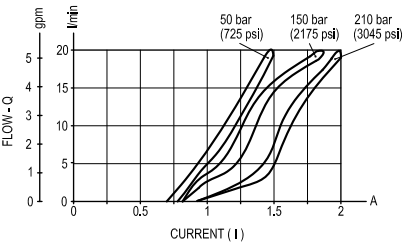
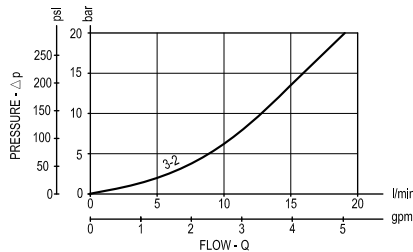
Dimensions

Proportional valves not compensated flow regulator

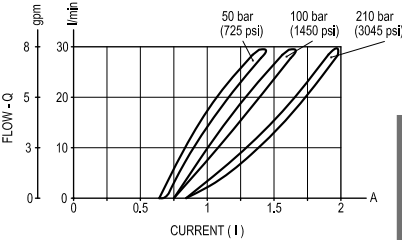
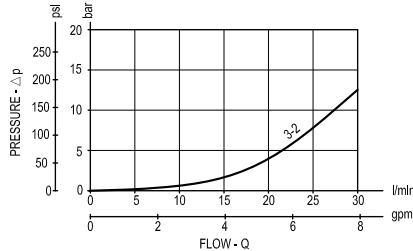


Performance graphs

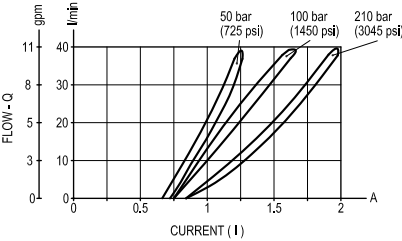
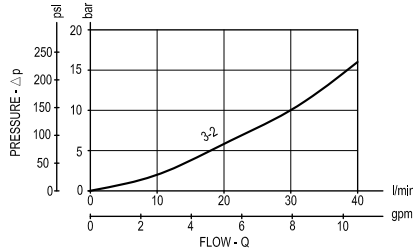
Z= 01



Z= 02



Z= 03



PMW Frequency: 120-150 Hz
Hysteresis: < 5%

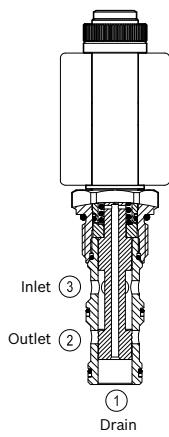
Note: It is recommended to use coil 12 DC.

Proportional valves not compensated flow regulator

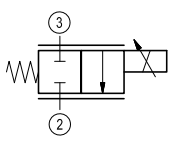
Common cavity, Size 12

VEP-5A-2Q-14

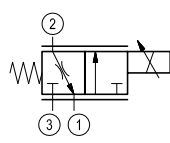
OD.92 - X - 12 - Y - 00



Version 03



Version 05



Version 03: port 1 not used.

General

Weight	kg (lbs)	0.39 (0.86)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min.(gpm)	5-60 (1-16)
Max. internal leakage (*)	cm³/min. (cu.in./min.)	190 (12)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)
Installation torque	Nm (ft-lbs)	81-95 (60-70)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Cavity		CA-12A-3N see RE 18325-70

Seal kit	code	RG12A3010520100
	material no.	R930000941
Seal kit coil	code	RG19A1PNBR7010
	material no.	R934003964

Other technical data See data sheet RE 18325-90
(*) Measured at 210 bar (3000 psi). Oil at 46 cSt.

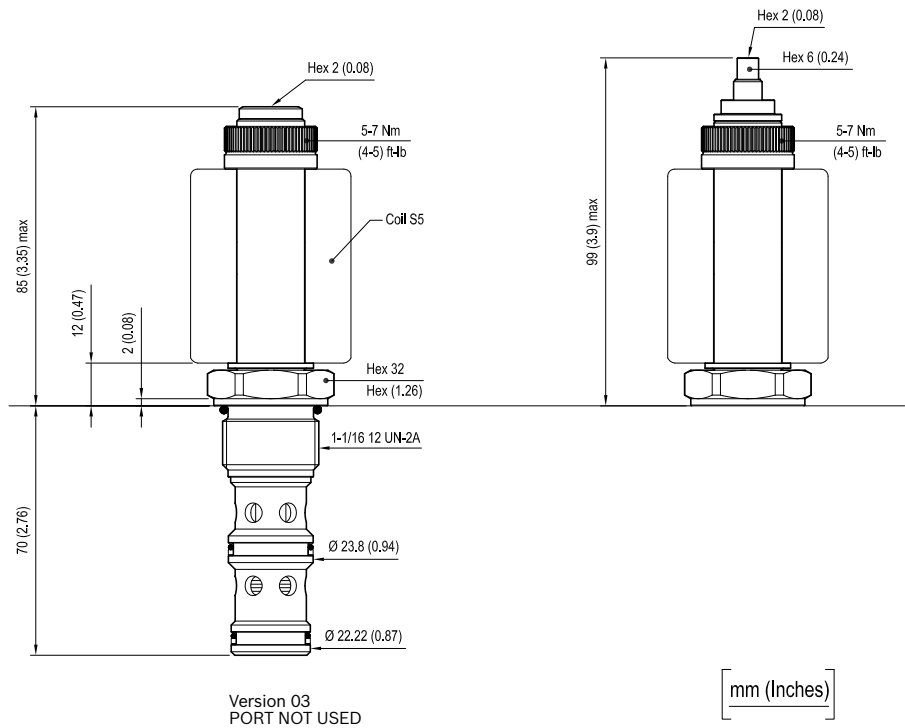
Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

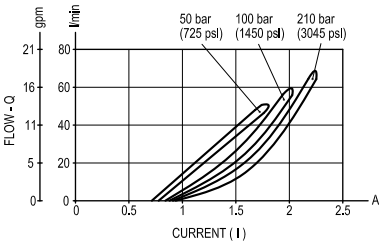
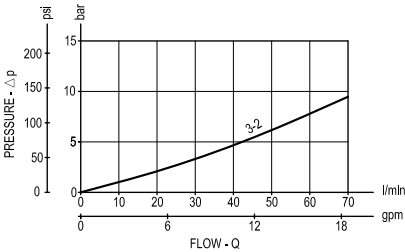
Note: Coils must be ordered separately.

Dimensions

Proportional valves not compensated flow regulator



Performance graphs



		I	P bar (psi)	Coils
Z=00	I min:	0.75 A	210 (3000)	12 DC
	I max:	2.1 A	210 (3000)	12 DC
PMW Frequency: 150-180 Hz				
Hysteresis: < 5%				

Note: It is recommended to use coil 12 DC.

Ordering code

OD.92	X	12	Y	00
-------	---	----	---	----

Proportional valves
not compensated flow
regulator

= 03

= 05

Common cavity: CA-12A-3N

Operating range		
Rated flow max l/min (gpm)	I Min. A (±10%)	I Max. A (±10%)
70 (19)	0.7	2.1

standard type

03 =

knob style manual override

04 =

Type	Material number
OD920312030000	R934001514
OD920312040000	R934001515
OD920512030000	R934001523
OD920512040000	R934003910

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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www.boschrexroth.com

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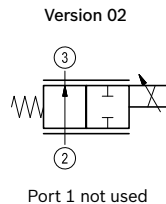
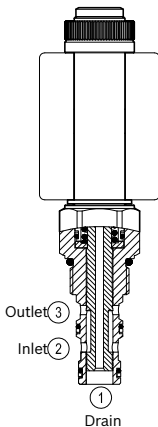
Subject to change.

Proportional valves not compensated flow regulator

Common cavity, Size 10

VEP-5A-2Q-09

OD.92.02.77 - Y - Z



General

Weight	kg (lbs)	0.32 (0.71)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 60 (-22 to 140)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min.(gpm)	See flow diagram
Max. internal leakage (*)	cm³/min. (cu.in./min.)	100 (6)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 44-56 (33-41)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-10A-3N see RE 18325-70

Seal kit code RG10A3010520100 material no. R901111369

Seal kit coil code RG19A1PNBR7010 material no. R934003964

Other technical data See data sheet RE 18325-90

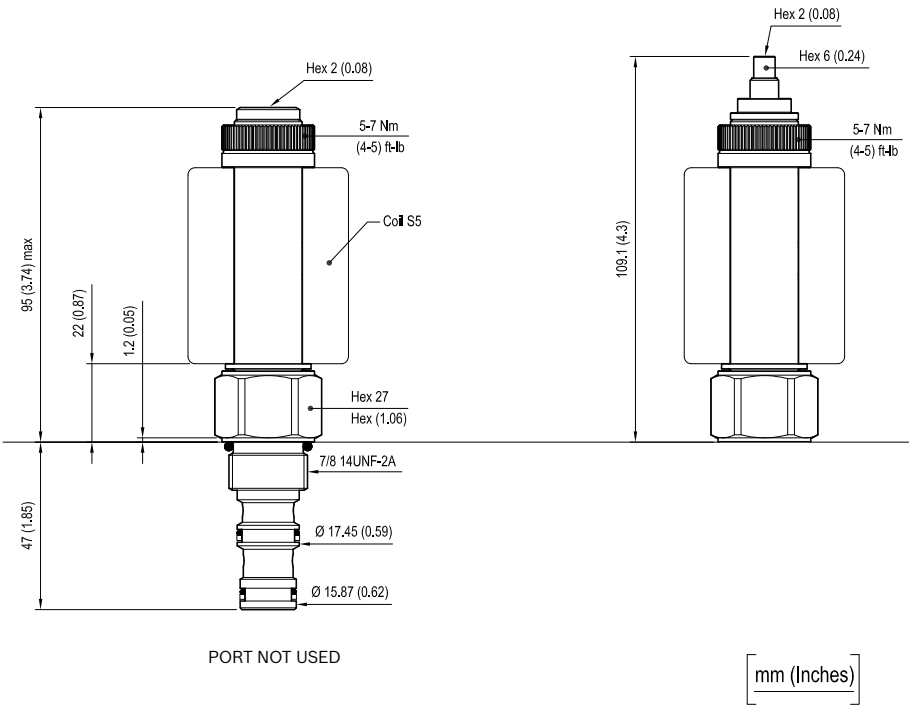
(*) Measured at 210 bar (3000 psi). Oil at 46 cSt.

Electrical

Type of voltage	DC voltage
Coil type	S5
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 23
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

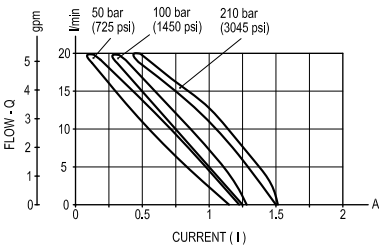
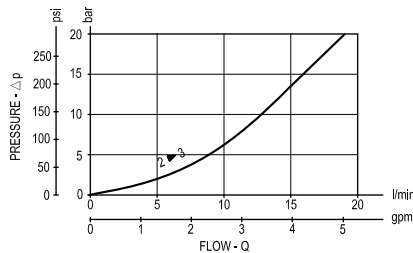
Dimensions

Proportional valves not compensated flow regulator

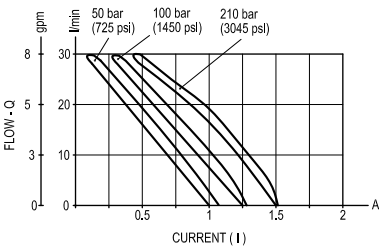
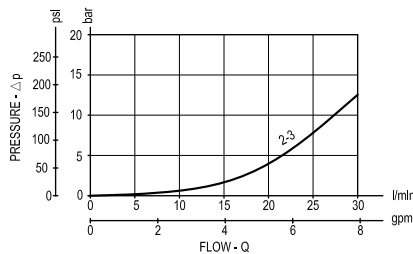


Performance graphs

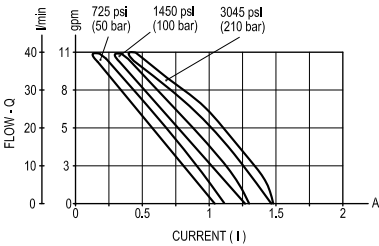
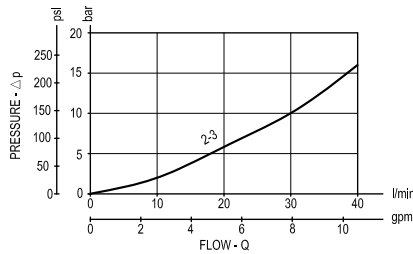
Z= 01



Z= 02



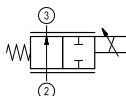
Z= 03



PMW Frequency: 120-150 Hz
Hysteresis: < 5%

Note: It is recommended to use coil 12 DC.

Proportional valves
not compensated flow
regulator

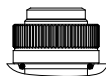


Common cavity: CA-10A-3N

	Operating range		
	Rated flow max l/min (gpm)	I Min. A (±15%)	I Max. A (±15%)
= 01	20 (6)	0.4	1.4
= 02	30 (8)	0.4	1.4
= 03	40 (11)	0.3	1.4

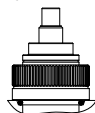
standard type

03 =



knob style manual override

04 =



Type	Material number
OD920277030100	R934001510
OD920277030200	R934001511
OD920277030300	R934003129
OD920277040100	R934003908
OD920277040200	R934001512
OD920277040300	R934001513

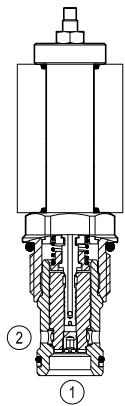
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Proportional valves poppet type not compensated flow regulator

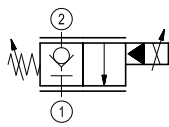
Common cavity, Size 12

VEPN-12A

OD.95.06.89.72.00



Version 06



4

General

Weight	kg (lbs)	0.29 (0.64)
Installation orientation		Optional
Ambient temperature range	°C (°F)	-30 to 90 (-22 to 194)

Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Flow range	l/min.(gpm)	5-60 (1-16)
Max. internal leakage	cm³/min. (cu.in./min.)	10 (0.6)
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 176)

Fluids Mineral-based or synthetics with lubricating properties at viscosities of 15 to 380 mm²/s (cSt)

Installation torque Nm (ft-lbs) 51-55 (38-41)

Filtration Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14

Cavity CA-12A-2N see RE 18325-70

Seal kit code RG12A2010520100 material no. R901111377

Seal kit coil code RG16A1PMVQ0010 material no. R934003962

Other technical data See data sheet RE 18325-90

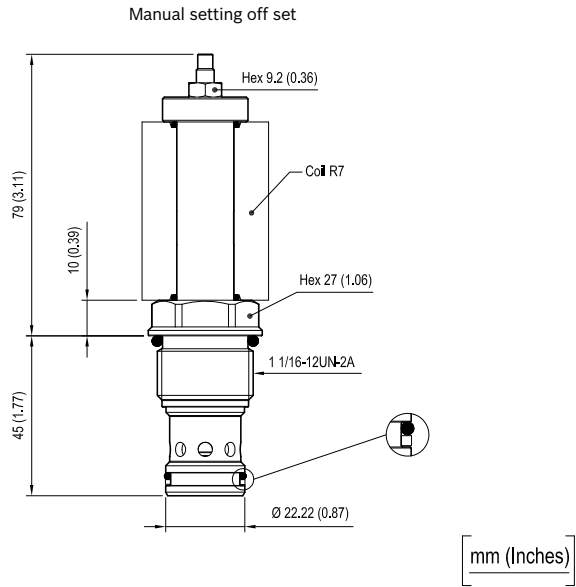
Electrical

Type of voltage	12 DC voltage
Coil type	R7
Supply voltage	12 DC
Nominal voltage	± 10%
Power consumption	W 18
Duty cycle	% 100
Type of protection	See data sheet RE 18325-90

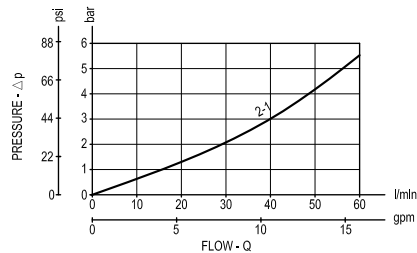
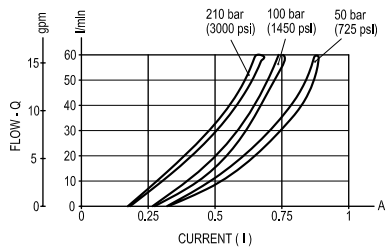
Note: Coils must be ordered separately.

Dimensions

Proportional valves poppet type not compensated flow regulator



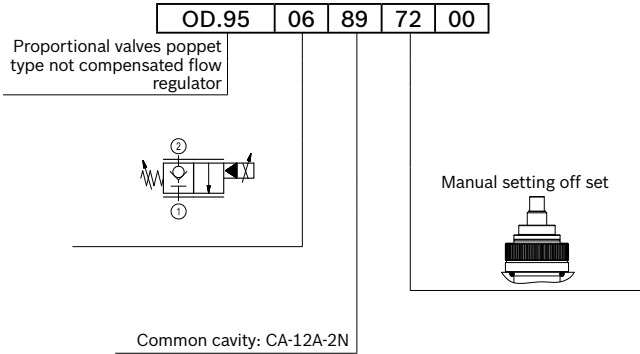
Performance graphs



	I	P bar (psi)	Coils
I min:	0.2	210 (3000)	12 DC
I max:	0.65	210 (3000)	12 DC
PMW Frequency: 120-150 Hz			
Hysteresis: < 5%			

Note: It is recommended to use coil 12 DC.

Ordering code



Type	Material number
OD950689720000	R934001162

Type	Material number

Bosch Rexroth Oil Control S.p.A.
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Subject to change.

Coils and Connectors

Designation	Data sheet	Pages
Coils - connectors	RE 18325-90	879

Coils - Connectors

Coils Connectors

1/14
RE 18325-90/07.12
Replaces: RE 18325-90/09.11



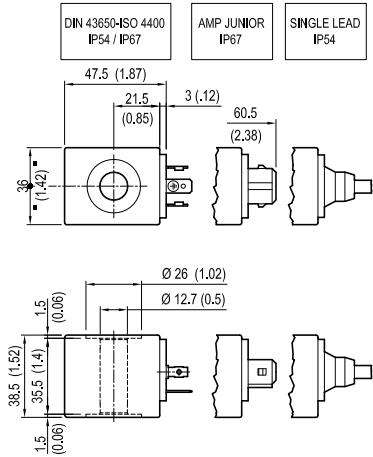
Summary

Description	Page	Description	Page
Coils		Connectors	
Coil S8-356 - CLASS H - 20 W	2-3	Connector IP67	11-14
Coil S8-356 - CLASS H - 17 W	4		
Coil S8-356 - CLASS H - 17 W - APPROVED UL	5		
Coil S5 - CLASS H - 20 W	6		
Coil S7 - CLASS H - 30 W	7		
Coil S7 - CLASS H - 26 W	8		
Coil C45 - CLASS H	9		
Coil R7 - CLASS H	10		

Coils - Connectors

COIL S8-356 - CLASS H - 20 W

OD.02.17 - X - Y - Z



TECHNICAL DATA

Weight: 0.18 kg (0.40 lbs)

Heat insulation Class H: 180°C (356°F)

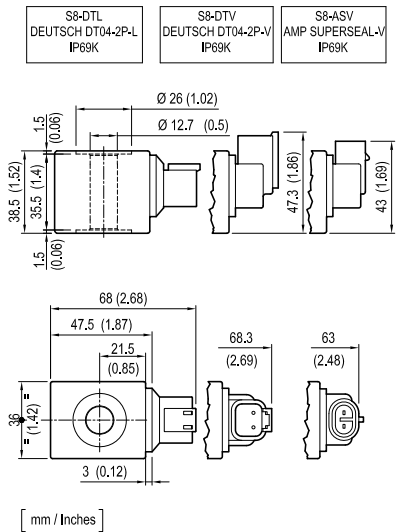
Ambient temperature range: -30/+60°C (-22/+140°F)

Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

X	Y	Connections	Circuit	Voltage
01	30	DIN 43650 - ISO 4400	Standard	DC-RAC
07	30	AMP JUNIOR	Standard	DC
0G	03	SINGLE LEAD	Standard	DC *
14	30	DIN 43650 - ISO 4400	Bidirectional Diode	DC
15	30	AMP JUNIOR	Bidirectional Diode	DC
0H	03	SINGLE LEAD	Bidirectional Diode	DC *

* Length 300mm (11.8 inches). Ext. diameter 6.3mm (0.25 inches). External and internal Sheath Silicone rubber.

Z	Voltage V	Resistance Ohm (±7%)	Power W		Current A	ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil	
OB	12 DC	7.2	20	1.7	1.2	105-110 (221-230)
OG	14 DC	9.0	20	1.6	1.1	
OC	24 DC	28.2	20	0.9	0.6	
AC	26 DC	33.6	20	0.8	0.5	
OV	24 RAC	23.1	20	0.9	-	110-125 (230-257)
OW	110 RAC	478.3	20	0.2	-	
OZ	220 RAC	1919.9	20	0.1	-	



X	Y	Connections	Circuit	Voltage
20	30	DEUTSCH DT04-2P-L	Standard	DC
20	3P	DEUTSCH DT04-2P-V	Standard	DC
30	3P	AMP SUPERSEAL-V	Standard	DC
22	30	DEUTSCH DT04-2P-L	Bidirectional Diode	DC
22	3P	DEUTSCH DT04-2P-V	Bidirectional Diode	DC
32	3P	AMP SUPERSEAL-V	Bidirectional Diode	DC

Z	Voltage V	Resistance Ohm (±7%)	Power W		Current A	ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil	
OB	12 DC	7.2	20	1.7	1.2	105-110 (221-230)
OC	24 DC	28.2	20	0.9	0.6	
AC	26 DC	33.6	20	0.8	0.5	

These coils have passed the THERMAL SHOCK DUNK TEST

Coils - Connectors

Preferred types (readily available)

Type	Material number
OD02170130AC00	R901058832
OD02170130OB00	R901090821
OD02170130OC00	R901083065
OD02170130OG00	R901144215
OD02170130OV00	R901090820
OD02170130OW00	R901087981
OD02170130OZ00	R901085466
OD02170730AC00	R934000494
OD02170730OB00	R901094604
OD02170730OC00	R901094607
OD02170730OG00	R934000498
OD02170G03OB00	R901100773
OD02170G03OC00	R901100775
OD02171430OB00	R901131889
OD02171430OC00	R901121821
OD02171530AC00	R901133139

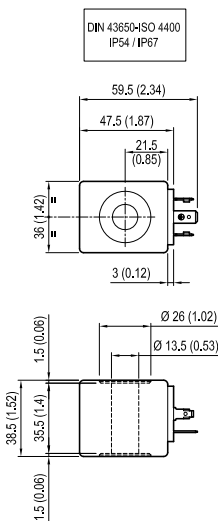
Further types available by request

Type	Material number
OD02171530OB00	R901111032
OD02171530OC00	R901125292
OD02172030OB00	R901094609
OD02172030OC00	R901094611
OD0217203PAC00	R934000509
OD0217203POB00	R901110014
OD0217203POC00	R901110015
OD02172230OB00	R901130433
OD02172230OC00	R901130401
OD02172230OG00	R934003033
OD0217223POB00	R901120671
OD0217223POC00	R901114602
OD0217303PAC00	R934000516
OD0217303POB00	R901110016
OD0217323POB00	R934000519
OD02170H03OG00	R934004360

Coils - Connectors

COIL S8-356 - CLASS H - 17 W - APPROVED UL

OD.02.25 - X - Y - Z



[mm / Inches]

LABEL EXAMPLE



TECHNICAL DATA

Weight: 0.18 kg (0.4 lbs)

Heat insulation Class H: 180°C (356°F)

Ambient temperature range: -20/+55°C (-4/+131°F)

Inlet voltage fluctuations must not exceed $\pm 10\%$ of nominal voltage to obtain correct operation and long life coils.

UL file number: E247526

X	Y	Connections	Circuit	Voltage
01	30	DIN 43650 - ISO 4400	Standard	DC

Z	Voltage V	Resistance Ohm ($\pm 7\%$)	Power W	Current A		ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	C o l d coil	H o t coil	1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage
OC	24 DC	33.7	17	0.7	0.5	105-110 (221-230)

Note: UL S8-356 coil is not function interchangeable with standard 20W S8-356 coil; performance on datasheets of Bosch Rexroth cartridge valves are not valid if assembled with UL S8-356 coils.

Please consult factory before any installation of UL coils in existing Bosch Rexroth solenoid cartridges.

Preferred types (readily available)

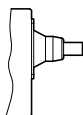
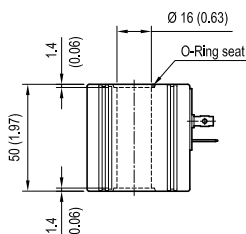
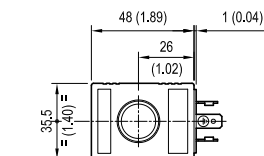
[illegible][illegible]

Coils - Connectors

COIL S7 - CLASS H - 30 W

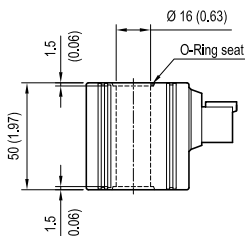
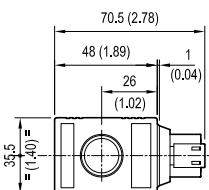
S7-H
DIN 43650/ISO 4400
IP54 / IP67

SINGLE LEAD
IP54



[mm / Inches]

S7-D
DEUTSCH DT04-2P
IP69K



[mm / Inches]

Preferred types (readily available)

Type	Material number
OD02070130OB02	R901090824
OD02070130OC02	R901090825
OD02072030OB02	R901094589
OD02072030OG02	R934000349
OD02072230OG02	R934000355

OD.02.07 - X - Y - Z - 02

TECHNICAL DATA

Weight: 0.33 kg (0.73 lbs)

Heat insulation Class H: 180°C (356°F)

Ambient temperature range: -30/+60°C (-22/+140°F)

Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

X	Y	Connections	Circuit	Voltage
01	30	DIN 43650 - ISO 4400	Standard	DC
0H	02	SINGLE LEAD	Bidirectional Diode	DC *

* Length 200 mm (7.87 inches). Ext. diameter 0.53 mm (0.02). External and internal Sealth Silicone rubber.

Z	Voltage V	Resistance Ohm (±7%)	Power W	Current A	ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil
OB	12 DC	4.8	30	2.5	1.8
OC	24 DC	18.8	30	1.2	0.9
					120-140 (248-284)

1 hour energized at Ta=20-25°C (68-77°F)
Nominal voltage

X	Y	Connections	Circuit	Voltage
20	30	DEUTSCH DT04-2P	Standard	DC
22	30	DEUTSCH DT04-2P	Bidirectional Diode	DC

Z	Voltage V	Resistance Ohm (±7%)	Power W	Current A	ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil
OB	12 DC	4.8	30	2.5	1.8
OG	14 DC	6.5	30	2.1	1.4
OC	24 DC	18.8	30	1.2	0.9
					120-140 (248-284)

1 hour energized at Ta=20-25°C (68-77°F)
Nominal voltage

Available on request: different voltages, working duty Ed 50 %

These coils have passed the THERMAL SHOCK DUNK TEST

Note: for general information see "Section 7 - Technical Data"

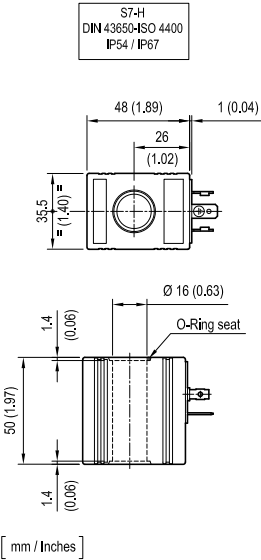
Type	Material number
OD02072030OC02	R901094594
OD02072230OB02	R901094595
OD02072230OC02	R901094597
OD02070H02OB02	R934004373

Further types available by request

Coils - Connectors

COIL S7 - CLASS H - 26 W

OD.02.37 - X - Y - Z - 02



TECHNICAL DATA
Weight: 0.33 kg (0.73 lbs)
Encapsulating material: IXEF
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+80°C (-22/+176°F)
Inlet voltage fluctuations must not exceed ±15% of nominal voltage to obtain correct operation and long life coils.

X	Y	Connections	Circuit	Voltage
01	30	DIN 43650 - ISO 4400	Standard	DC

Z	Voltage V	Resistance Ohm (±7%)	Power W	Current A			ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil		1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage
OB	12 DC	5.5	26	2.2	1.6	100-120 (212-248)	
OC	24 DC	2.9	26	1.1	0.8		

Preferred types

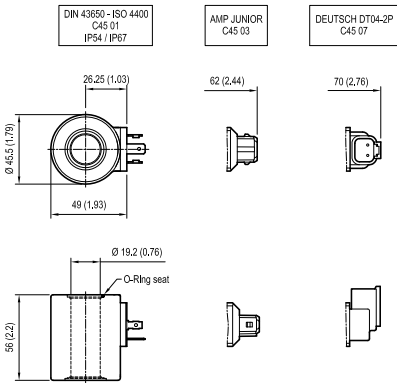
Type	Material number
OD023701300C02	R934003700

Type	Material number

Further types available by request

Coils - Connectors

COIL C45 - CLASS H



TECHNICAL DATA
Weight: 0.34 kg (0.75 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+60°C (-22/+140°F)
Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

[mm / Inches]

Connection
DIN 43650 - ISO 4400

Description	Voltage V	Power W	Current A to 20°C	Resistance Ω ±7% to 20°C	Code	Material Number
C45 01 12DC	12 DC	33	2.8	4.2	271-0417	R933000026
C45 01 24DC	24 DC	33	1.4	17.1	271-0418	R933000034

Connection
AMP JUNIOR

Description	Voltage V	Power W	Current A to 20°C	Resistance Ω ±7% to 20°C	Code	Material Number
C45 03 12DC	12 DC	33	2.8	4.2	271-041710	R933000027
C45 03 24DC	24 DC	33	1.4	17.1	271-041725	R933003630

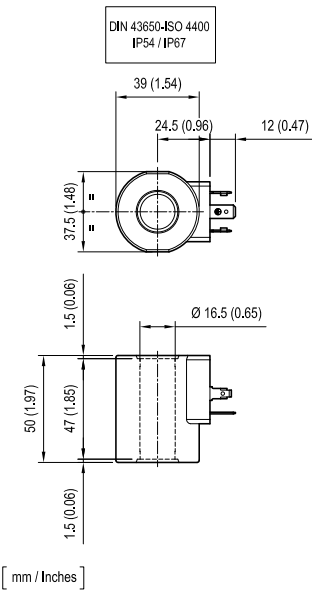
Connection
DEUTSCH DT04-2P

Description	Voltage V	Power W	Current A to 20°C	Resistance Ω ±7% to 20°C	Code	Material Number
C45 07 12DC	12 DC	33	2.8	4.2	271-041717	R933000030
C45 07 24DC	24 DC	33	1.4	17.1	271-041719	R933000032

Coils - Connectors

COIL R7 - CLASS H - 18 W

OD.02.21 - X - Y - Z - 00



TECHNICAL DATA
Weight: 0.31 kg (0.71 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+80°C (-22/+284°F)
Inlet voltage fluctuations must not exceed ±15% of nominal voltage to obtain correct operation and long life coils.

X	Y	Connections	Circuit	Voltage
01	30	DIN 43650 - ISO 4400	Standard	DC

Z	Voltage V	Resistance Ohm (±7%)	Power W	Current A		ΔT °C (°F)
	Nominal	Ta = 20-25°C (68-77°F)	Cold coil	Cold coil	Hot coil	1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage
OB	12 DC	7.9	18	1.5	1.1	90-105 (194-221)

Preferred types (readily available)

Type	Material number
OD02210130OB00	R934001302

Type	Material number

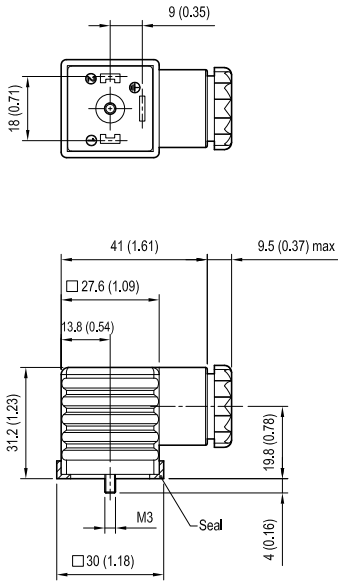
Further types available by request

Coils - Connectors

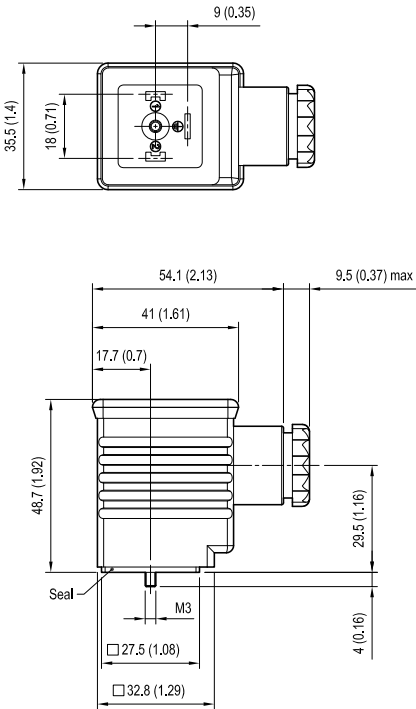
CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

Ambient temperature	- Standard	°C	- 20 to + 100
	-With indicator lamp/rectifier	°C	-20 to + 60
Type of protection according to DIN 40050			IP67 with cable socket mounted and locked
Operating voltage		V	Choose the proper ordering code according to the circuit
Maximum operating current	- Standard	A	16
	- With rectifier	A	1 or 3
Current consumption of LED		mA	approx. 10
LED			Red
Number of pins			2 + PE
Clamping range for cables having an outer diameter of		mm	5, up to 10
Cable entry			Pg9 / Pg11 (unified)
Maximum cable cross-section		mm ²	1.5

Type 1



Type 2

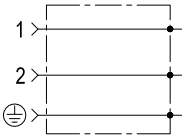


[mm / Inches]

Coils - Connectors

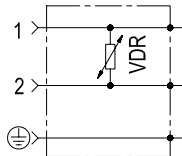
CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

STANDARD CIRCUIT



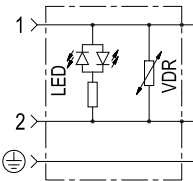
Colour	Valve side	Cable entry	Type connector	Code	Material number
black	B	Pg9 / Pg11	type 1	OD016901000000	R934004344
grey	A	Pg9 / Pg11	type 1	OD016901000003	R934004346

CIRCUIT WITH VDR



Voltage V		Colour	Valve side	Cable entry	Type connector	Code	Material number
AC	DC						
12		black	A/B	Pg9 / Pg11	type 1	OD01690700OB00	R934004361
24		black	A/B	Pg9 / Pg11	type 1	OD01690700OC00	R934004362
115		black	A/B	Pg9 / Pg11	type 1	OD01690700OE00	R934004363
230		black	A/B	Pg9 / Pg11	type 1	OD01690700OF00	R934004364

CIRCUIT WITH VDR + LED

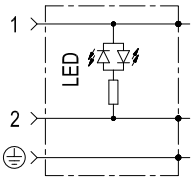


Voltage V		Colour	Valve side	Cable entry	Led colour	Type connector	Code	Material number
AC	DC							
12		transparent	A/B	Pg9 / Pg11	red	type 1	OD01692100OB00	R934004370
24		transparent	A/B	Pg9 / Pg11	red	type 1	OD01692100OC00	R934004371

Coils - Connectors

CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

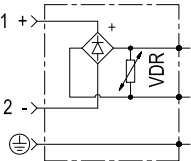
CIRCUIT WITH LED



Voltage V		Colour	Valve side	Cable entry	Led colour	Type connector	Code	Material number
AC	DC							
12		transparent	A/B	Pg9 / Pg11	red	type 1	OD01690300OB00	R934004354
24		transparent	A/B	Pg9 / Pg11	red	type 1	OD01690300OC00	R934004355
230		transparent	A/B	Pg9 / Pg11	red	type 1	OD01690300OF00	R934004356

CIRCUIT WITH VDR + WAVE RECTIFIER

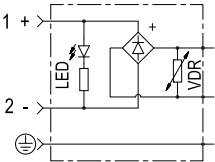
Note: for diode with capacity max 1 Amp,
suitable only for S8-356 coils.



Voltage V		Diode Capacity I max	Colour	Valve side	Cable entry	Type connector	Code	Material number
AC	DC							
115	/	1 A	black	A/B	Pg9 / Pg11	type 1	OD01690201OW00	R934004352
230	/	1 A	black	A/B	Pg9 / Pg11	type 1	OD01690201OZ00	R934004353
24	/	3 A	black	A/B	Pg9 / Pg11	type 2	OD01690200OV00	R934004349
115	/	3 A	black	A/B	Pg9 / Pg11	type 2	OD01690200OW00	R934004350
230	/	3 A	black	A/B	Pg9 / Pg11	type 2	OD01690200OZ00	R934004351

CIRCUIT WITH VDR + WAVE RECTIFIER + LED

Note: for diode with capacity max 1 Amp,
suitable only for S8-356 coils.

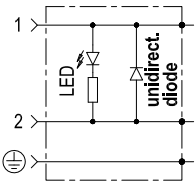


Voltage V		Diode Capacity I max	Colour	Valve side	Cable entry	Led colour	Type connector	Code	Material number
AC	DC								
115	/	1 A	trasparent	A/B	Pg9 / Pg11	red	type 1	OD01691901OW00	R934004369
230	/	3 A	trasparent	A/B	Pg9 / Pg11	red	type 2	OD01691900OZ00	R934004367

Coils - Connectors

CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

CIRCUIT WITH UNIDIRECTIONAL DIODE +LED



Voltage V		Colour	Valve side	Cable entry	Led colour	Type connector	Code	Material number
AC	DC							
/	12	transparent	A/B	Pg9 / Pg11	red	type 1	OD01691000OB00	R934004365
/	24	transparent	A/B	Pg9 / Pg11	red	type 1	OD01691000OC00	R934004366